User Manual



27MDTR20 20MC4304 19MDTR20 COLOR TV WITH BUILT-IN VCR AND DVD PLAYER

Thank you for choosing Magnavox.

Need help fast?

Read your Quick Use Guide and/or Owner's Manual first for quick tips that make using your Magnavox product more enjoyable. If you have read your instructions and still need assistance, you may access our online help at

> www.magnavox.com or call I-800-705-2000 while with your product.

Magnavox vous remercie de votre confiance.

Besoin d'une aide rapide?

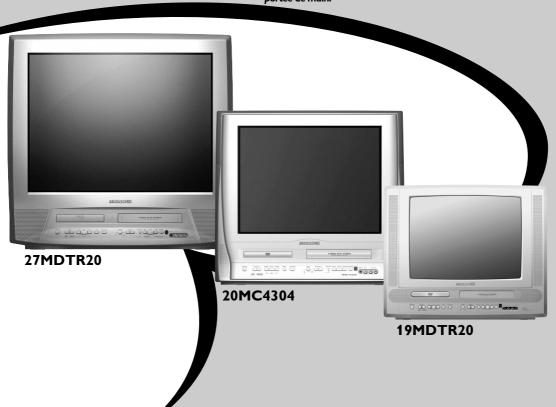
Les Guide d'utilisation rapide et Manuel de l'utilisateur regorgent d'astuces destinées à simplifier l'utilisation de votre produit Magnavox. Toutefois, si vous ne parvenez pas à résoudre votre probléme, vous pouvez accéder à notre aide en ligne à l'adresse

www.magnavox.com ou formez le I-800-661-6162 (Francophone) I-800-705-2000 (English speaking) Veillez à avoir votre produit à portée de main. Gracias por escoger Magnavox

Necesita ayuda inmediata?

Lea primero la Gula de uso rápido o el Manual del usuario, en donde encontrarconsejos que le ayudarán a disfrutar plenamente de su producto Magnavox. Si después de leerlo aún necesita ayuda, consulte nuestro servicio de asistencia en línea en

www.magnavox.com o llame al teléfono I-800-705-2000 y tenga a mano el producto.



Return your Product Registration Card today to get the very most from your purchase.

Registering your model with MAGNAVOX makes you eligible for all of the valuable benefits listed below, so don't miss out. Complete and return your Product Registration Card at once to ensure:

*Proof of Purchase

Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.

*Product Safety Notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

*Additional Benefits of Product **Ownership**

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.

MAGNAVOX

Congratulations on your purchase, and welcome to the "family!"

Dear MAGNAVOX product owner:

Thank you for your confidence in MAGNAVOX. You've selected one of the bestbuilt, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

Most importantly, you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome - and thanks for investing in a MAGNAVOX product.

P.S. To get the most from your MAGNAVOX purchase, be sure to complete and return your Product **Registration Card at once.**

Know these safety symbols



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SER-VICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.



The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, THIS APPARATUS SHOULD NOT BE EXPOSED TO RAIN OR MOISTURE, AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VÁSES, SHOULD NOT BE PLACED ON THIS APPARATUS.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. Serial No.

Visit our World Wide Web Site at http://www.magnavox.com

Safety and General Information 3

Safety Precautions

- Do not stand the unit up vertically. Install the unit in a horizontal and stable position.
- Be sure to remove the disc and unplug the AC power cord from the output before carrying the unit.

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

Federal Communications Commission (FCC) Warning: Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

Laser Safety: This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM. THE BEAM IS LOCATED INSIDE, NEAR THE DECK MECHANISM.

Special Information for Canadian Users: This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Radio/TV Interference: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the equipment and the receiver.
- 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help.

Copyright Protection: Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. "This product incorporates copyright protection technology that is protected by U. S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited."

Note to the Cable TV System Installer: This reminder calls the Cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding – in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Declaration of Conformity

Model Number:	27MDTR20
	20MC4304
	19MDTR20
Trade Name:	Magnavox
Responsible Party:	Philips Consumer Electronics North America
	P.O. Box 671539
	Marietta, GA 30006-0026
	1-800-705-2000

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4 Safety and General Information (cont'd)

IMPORTANT SAFETY INSTRUCTIONS Read before operating equipment

- Read these instructions
- 2. Keep these instructions
- Heed all warnings 3. 4.
- Follow all instructions Clean only with a dry cloth.
- Do not block any of the ventilation openings. Install in accordance 7. with the manufacturers instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
- 9. Do not defeat the safety purpose of the polarized or groundingtypeplug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
- 16. Damage Requiring Service The appliance should be serviced by qualified service personnel when: A. The power supply cord or the plug has been damaged; or

- B. Objects have fallen, or liquid has been spilled into the appliance; or The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or
- exhibits a marked change in performance; or
 E. The appliance has been dropped, or the enclosure damaged.
 17. Tilt/Stability All televisions must comply with recommended international global safety standards for tilt and stability properties of the subling damaged. Do not compromise these design standards by applying excessive

pull force to the front, or top, of the cabinet which could ultimately overturn the product.

ultimately overturn the product.
Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. Power Lines - An outdoor antenna should be located away from power lines

- ower lines
- 20. OutdoorAntenna Grounding If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Entry blow.
- Figure below 21. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings a) Warning: To reduce the risk of fire or electric shock, this

apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus

- 22. Battery Usage CAUTION To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
 - Install all batteries correctly, with + and aligned as marked on the unit.
 - Do not mix batteries (old and new or carbon and alkaline, etc.). · Remove batteries when the unit is not used for a long time.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

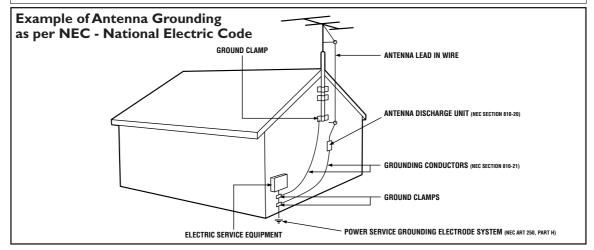


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6 Introduction

Welcome to your TV/VCR/DVD owner's manual.

This manual describes the 27MDTR20, 20MC4304 and 19MDTR20. These three models are different in size and design, but operate identically. The 20MC4304 is illustrated in this manual.

Features - TV/VCR

- Automatic Channel Setup
- Automatic Head Cleaner
- Automatic Tracking Adjustment
- Closed Captions
- Daylight-Savings Time
- English, Spanish or French Setup Menus
- Forward/Reverse Searching; Still
- High Quality (HQ) System
- Index Search

Features - Discs

- Audio Language choices *
- Bit Rate display
- Camera Angle^{*}
- Dolby Digital Sound *
- Dual Playback
- Dynamic Range Control
- Fast/Paused/Slow/Step-by-Step Playback
- JPEG Playback
- Markers
- MP3 Playback
- Parental Controls *

- One-Touch Recording
- Real-Time Videotape Counter
- Rental Playback
- Repeat Playback
- Sleep Timer
- Timer Recording
- Time Search
- V-Chip (Parental Controls)
- Zero Return
- Program Playback (Audio CD, MP3, JPEG)
- Random Playback
- (Audio CD, MP3, JPEG)
- Repeat (A-B, Chapter, Title, Track, Group, Disc)
- Search (Title/Chapter, Time, Track)
- Subtitles *
- Virtual Surround
- Zoom
- * If available on the disc

DVD Disc Menus...

Some explanations in this manual describe DVD disc menus. DVD manufacturers set the menus, which vary among DVDs. Not all DVDs have menus. If the DVD has a menu, access it by pressing DISC MENU on the remote control.

Details are on page 52.

Setup Menus...

Some instructions explain how to use the setup menus of the TV/VCR/DVD. There are two setup menus: one for the TV/VCR features while the unit is in TV/VCR mode, and one for the disc features while the unit is in DVD mode. Access the setup menus by pressing SETUP on the remote control.

While in TV/VCR mode, you can select only the TV/VCR SETUP menu.

In DVD mode, you can select both the TV/VCR SETUP menu and the SETUP menu for the unit's DVD player. Press SETUP once to select the TV/VCR SETUP menu. Press SETUP twice to get to the DVD player's SETUP menu.

Even if you set a DVD feature in the unit's SETUP menu, it will not be available if the current disc does not include that feature.

Available Disc Features...



All features described in this manual are not available on every disc. If the feature is not available on the disc, you cannot use the TV/VCR/DVD to make it available.

An "X" will appear in the top right corner of the screen if you try to access a feature that is not available.

For example, some features are available only during playback, while others are available only if playback is stopped. If you cannot access a feature, try stopping or starting playback, then try the feature again.

Playable Discs and Videotapes 7

Playable Discs

The DVD player of this TV/VCR/DVD will play many types of discs, including Digital Video Discs (DVDs) and Audio Compact Discs (CDs). It will play MP3 and JPEG files as well.

To play a DVD, make sure it meets the requirements for Region Codes and Color Systems as described below. Discs that have the following logos will play on the DVD player of this TV/VCR/DVD. Finalize CD-R, CD-RW, DVD+R and DVD+RW Discs before playing them in the TV/VCR/DVD.

- A disc may not play properly if the disc's recorded area is less than 55mm across.
- Do not glue paper or put stickers on to the disc. These may damage the disc, and the TV/VCR/DVD may not read it correctly.



DVD: Prerecorded Digital Video Discs



CD-R/RW: Compact Disc Recordable/Rewritable. CD-Rs can be recorded on only once. CD-RWs can be recorded on multiple times.



MP3: Digital audio files recorded on a CD-R or CD-RW



DVD+R: DVD Recordable. DVD+Rs can be recorded on only once.



Video CDs

Audio CDs



DVD+RW: DVD Rewritable. DVD+RWs can be recorded on multiple times.

DVD-Audio

See is a trademark of DVD Format/Logo Licensing Corporation.

This unit is not compatible with Multiple Bit Rate

(MBR: a file that contains the same content encoded at several different bit rates).

Region Codes

This TV/VCR/DVD has a Region One (1) DVD player. DVDs must be labeled for ALL regions or for Region 1 in order to play on the unit. You cannot play DVDs that are labeled for other regions. Look for the symbols below on your DVDs. If these region symbols do not appear on your DVD, you cannot play the DVD in this TV/VCR/DVD.



The number inside the globe refers to a region of the world. Region 1 represents the United States, Canada, upper regions of North America, Bermuda, the U.S. Virgin Islands and small regions near Australia. A DVD labelled for a specific region can only play on DVD players with the same region code.

Color Systems

DVDs are recorded in different color systems throughout the world. The most common color systems are NTSC (which is used primarily in the United States and North America), PAL and SECAM.

The DVD player of this unit uses NTSC, so DVDs you play must be recorded in the NTSC color system. You cannot play DVDs recorded in other formats. The color system of the DVD may be listed on the DVD or on the disc case.

Unacceptable Discs

If you insert an unacceptable type of disc, a Disc Error message may appear on the TV screen. The following discs will not play on this DVD player. DVD-ROM

- CD-ROM
 - Compact Disc-Interactive (CD-I)
- DVD-RAM
- Video Single Disc (VSD) DVD contains MP3 or JPEG files
- Unfinalized Discs
- DVD/CD contains Windows Media[™] Audio
- On the following disc, the sound may not be heard. Super Audio CD - Only the sound on the CD layer can be heard. The sound on the high-density Super Audio CD layer cannot be heard.

Videotapes

Magnavox recommends you use only videotapes that have the VIIS mark. Other videotapes may have poor picture quality and cause excessive deposits on the video heads. The warranty may not cover such damage. The VCR of this TV/VCR/DVD has a High Quality (HQ) system and is compatible with existing Video Home System (VHS) equipment.

8 Before Using the TV/VCR/DVD

Remote Control Battery Installation

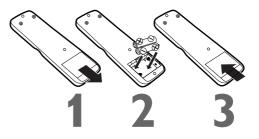
Remove the battery compartment lid on the bottom of the remote control. Slide the lid down and off. Follow the direction of the arrow on the lid.



Place two AA batteries inside the battery compartment. Align the + and – ends as indicated.



Replace the battery compartment lid.



Battery Safety

Battery Usage CAUTION - To prevent battery leakage that may result in bodily injury, property damage or damage to the unit:

- Install ALL batteries correctly, with the + and markings on the battery aligned as indicated on the unit;
- Do not mix batteries, for example, old with new or carbon with alkaline; and
- Remove batteries when the unit will not be used for a long time.

Recording Prevention

Videotapes have record tabs to ensure you do not erase recordings accidentally.



To prevent accidental recording, break off the tab with a screwdriver.

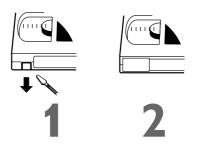
To record again, cover the hole with cellophane tape.

Using the Remote Control

- Point the remote control at the remote sensor on the front of the TV/VCR/DVD. Details are on page 17.
- Do not put objects between the remote control and the TV/VCR/DVD.

TV/VCR/DVD Maintenance

- Remove any light adhesive stick-on notes from the video cassette before putting the cassette in the TV/VCR/DVD. Removable labels can jam the TV/VCR/DVD.
- The TV/VCR/DVD requires periodic maintenance to maintain its excellent performance. This TV/VCR/DVD has an internal head cleaning system. However, the video heads will eventually require cleaning or replacement. Only an authorized service center should perform this service.

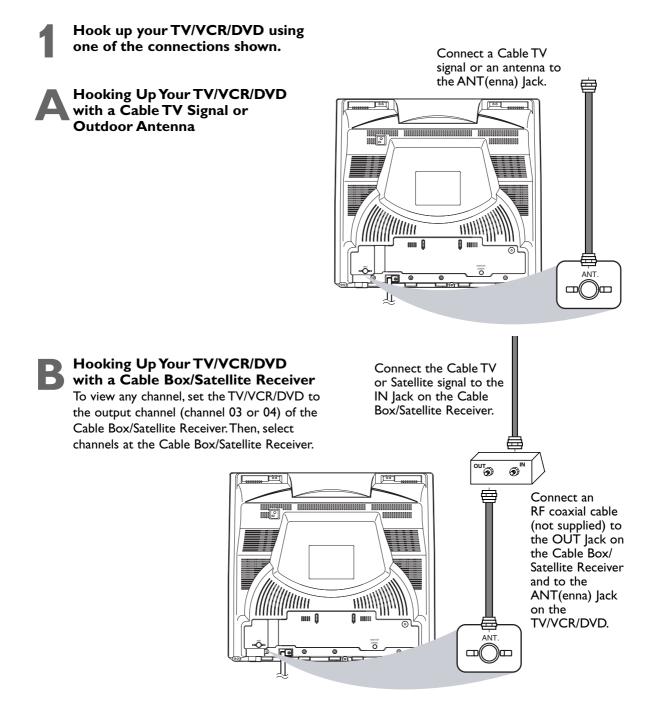


Helpful Hint

Your new product, its packaging and this manual contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount that needs to be properly disposed. Your product uses batteries that should not be thrown away when depleted but should be disposed of as small chemical waste. Please find out about the local regulations on disposal of your old product, batteries, manual and packaging when you

replace existing equipment.

Hooking Up the TV/VCR/DVD 9



Your Cable Box/Satellite Receiver may have Audio and Video Out jacks instead of the single Antenna Out jack (RF coaxial or 75 ohm) shown here. If so, connect Audio and Video cables to the Audio/Video Out jacks of the Cable Box/Satellite Receiver and to the AUDIO/VIDEO In jacks on the front of the TV/VCR/DVD. Press SELECT on the remote to set the TV/VCR/DVD to AUX, not channel 3 or 4. Select channels you want to watch or record at the Cable Box/Satellite Receiver as usual, leaving the TV/VCR/DVD on AUX.

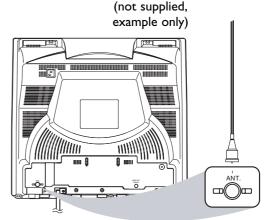
Instructions continue on the next page.

10 Hooking Up the TV/VCR/DVD (cont'd)

Instructions continued from the previous page.

Hooking Up Your TV/VCR/DVD with an Indoor Antenna

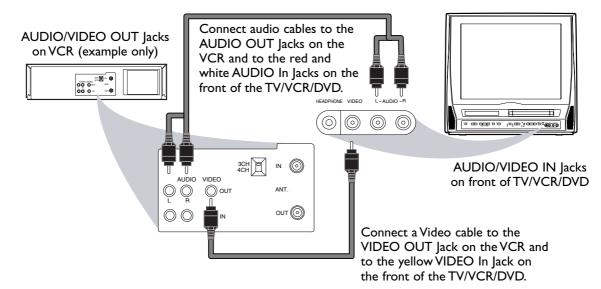
To install an indoor antenna or "rabbit ears" (not supplied), connect the antenna wire to the ANT(enna) Jack on the back of the TV/VCR/DVD as shown. Extend the antenna and adjust its length, direction and angle for the clearest picture. Indoor Antenna



Hooking Up Your TV/VCR/DVD to Another Video Source (VCR, DVD player, Camcorder, etc.) You may need this connection if you want to

play discs or tapes on other equipment but watch them on the TV/VCR/DVD. Press SELECT on the remote to select AUX at the TV/VCR/DVD. When you play the materials on the other equipment, it will show on the TV/VCR/DVD's AUX channel. More details are on page 34.

Audio and video cables are not supplied.



When all other connections are complete, plug in the TV/VCR/DVD's power cord.

Optional Connections 11

To AUDIO OUT COAXIAL jack on TV/VCR/DVD

To Stereo's COAXIAL DIGITAL AUDIO IN jack

Digital Stereo Hookups

You can connect the TV/VCR/DVD to a Stereo that has a Digital Coaxial In jack. Use this hookup if you want to hear the TV/VCR/DVD sound through the Stereo instead. Use these connections for a Dolby Digital-compatible Stereo or for a Receiver that has a Mini-Disc or Digital Audio Tape deck.

1

Connect the antenna/Cable TV signal. Details are on pages 9-10.

Connect a digital audio coaxial cable (not supplied) to the AUDIO OUT COAXIAL jack on the TV/VCR/DVD. Also connect the cable to the Stereo's COAXIAL DIGITAL AUDIO IN jack.

If the Stereo is Dolby Digital-compatible, set DOLBY DIGITAL to BITSTREAM. If the Stereo is not Dolby Digital-compatible or if you connected to a Mini-Disc or Digital Audio Tape Deck, set DOLBY DIGITAL to PCM. Details are on page 72. An incorrect setting causes noise distortion and damages speakers.

- You cannot use a Mini-Disc or Digital Audio Tape deck to copy Dolby Digital 5.1 channel surround sound discs.
- If the disc is not recorded in Dolby Digital 5.1 channel surround sound, you will not hear multi-channel sound even if you use the Digital Stereo hookup.
- To see if your disc is recorded in Dolby Digital, look for a Dolby Digital logo on disc or on its case.
- To see if your Stereo has Dolby Digital, look for a Dolby Digital logo on your Stereo. Or, refer to the Stereo owner's manual.

12 Watching TV

The unit selects available TV channels automatically when you connect an Antenna or Cable TV signal to it. To reset TV channels, see page 20.

If you are using a Cable Box or Satellite Receiver, you do not need to set channels at the TV/VCR/DVD.

Press STANDBY-ON to turn on the TV/VCR/DVD.

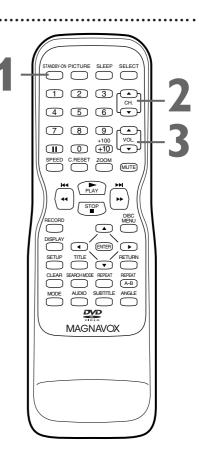
To watch TV, press CH. \blacktriangle / \bigtriangledown to select memorized channels. Memorized channels are those that appear when you flip through channels. If a channel is skipped, you still can use the Number buttons to select it. This is a non-memorized channel; it may have weak reception in your area.

To update your memorized and non-memorized channels, see page 19.

Remember, if you are using a Cable Box/Satellite Receiver, set the TV/VCR/DVD to channel 3, 4 or AUX. Change channels at the Cable Box/Satellite Receiver.

Press VOL. $\blacktriangle/\blacksquare$ to adjust the volume.





Playing a Videotape 13

Follow these steps to simply play a videotape. Videotape playback options are on pages 35-41.

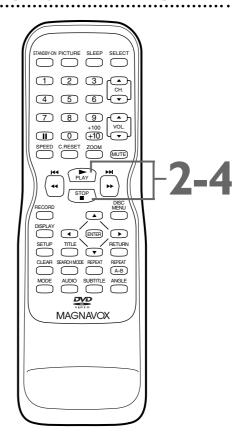
Insert a videotape in the cassette compartment of the TV/VCR/DVD. The power will come on. If the tape's record tab is missing, playback should start automatically.

If playback does not start automatically, press PLAY ► to start playback.

Press STOP ■ to stop playback.

Press I ◄ / ◄ to rewind the tape. Press ► I / ► to fast forward the tape.

Press STOP/EJECT $\blacksquare/\blacktriangle$ on the front of the TV/VCR/DVD to remove the tape.



- If the tape you want to play is already in the TV/VCR/DVD, turn on the power. Press SELECT to choose TV/VCR mode (the red VCR/TV light will be on), then press PLAY ▶.
- When you play an S-VHS format tape, you cannot get the high resolution that would be available on an S-VHS VCR. Noise lines (black and white streaks) may appear in the picture.
- If you press SELECT while playing a videotape, playback will stop and the unit will switch to DVD mode. This will happen also if you press PLAY ► (DVD) or OPEN/CLOSE ▲(DVD) on the front of the TV/VCR/DVD during videotape playback.

14 Playing a Disc

Before you begin, turn on the power of other equipment connected to the TV/VCR/DVD. Set a stereo (if applicable) to the correct sound source or channel. *Details are on page 11*.

Press STANDBY-ON to turn on the TV/VCR/DVD. The unit will be in TV/VCR mode. The red VCR/TV light will be on.

2

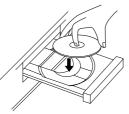
Press SELECT repeatedly to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.



Press OPEN/CLOSE \triangleq on the front of the TV/VCR/DVD to open the disc tray.

Place a disc into the tray.

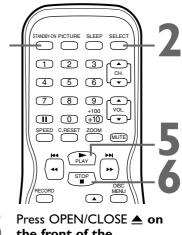
Some DVDs are recorded on both sides. Make sure the label of the side you want to play is facing up. Or, if the DVD is recorded on only one side, place the disc in the tray with the label facing up and the shiny side facing down.



Press PLAY ► to close the tray. The tray will close and playback will begin. If playback does not start automatically, press PLAY ► again. If a DVD menu appears instead, see page 52. To play MP3 or JPEG files, see page 66. You also can close the tray by pressing OPEN/CLOSE ▲.

Press STOP ■ to stop playback. If playback remains stopped for 5 minutes, the DVD screen will dim. If playback is stopped for 20 minutes with no activity at the TV/VCR/DVD, the unit will turn off.

REMINDER: Only certain discs will play. See page 7 for details.



Press OPEN/CLOSE **A** or the front of the **TV/VCR/DVD**. Insert a disc.

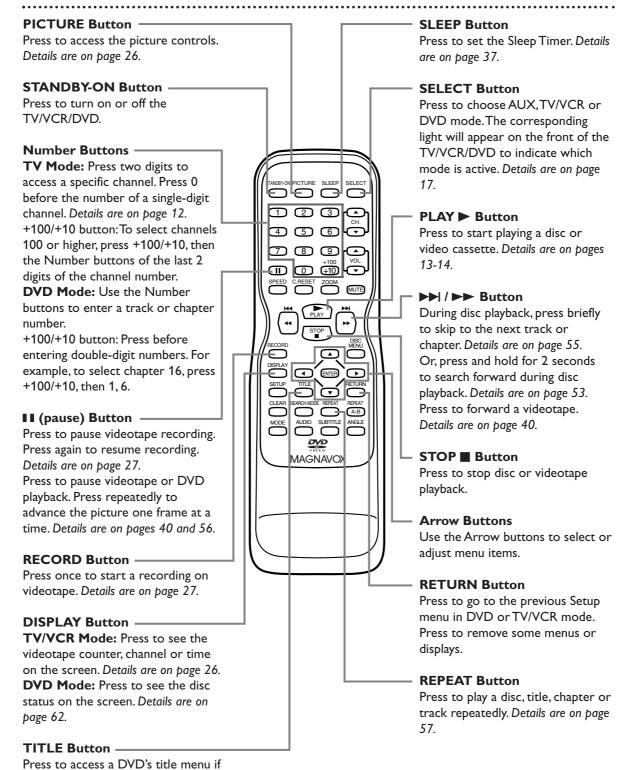
Helpful Hints

- Even if you turn off the unit in DVD mode, if you turn it on again with the STANDBY-ON button, it will be in TV/VCR mode. If the unit was shut down by unplugging the power cord or due to a power failure, it will be in DVD mode when you turn it on again.
- An "X" will appear on the screen when you try to access a feature that is not available. This is not a problem with the TV/VCR/DVD.
- If a disc is dirty or scratched, the picture may be distorted or playback may stop. Remove the disc and try a different one.
- Press OPEN/CLOSE ▲ (DVD) or PLAY ► (DVD) on the front of the TV/VCR/DVD when the power is off. This turns on the unit in DVD mode (not TV/VCR mode).
- If a disc has multiple layers, the picture may freeze occasionally. This happens when the first layer switches to the second layer. This is not a malfunction.
- Pressing SELECT during disc playback stops disc playback and switches the unit to TV/VCR mode. Pressing

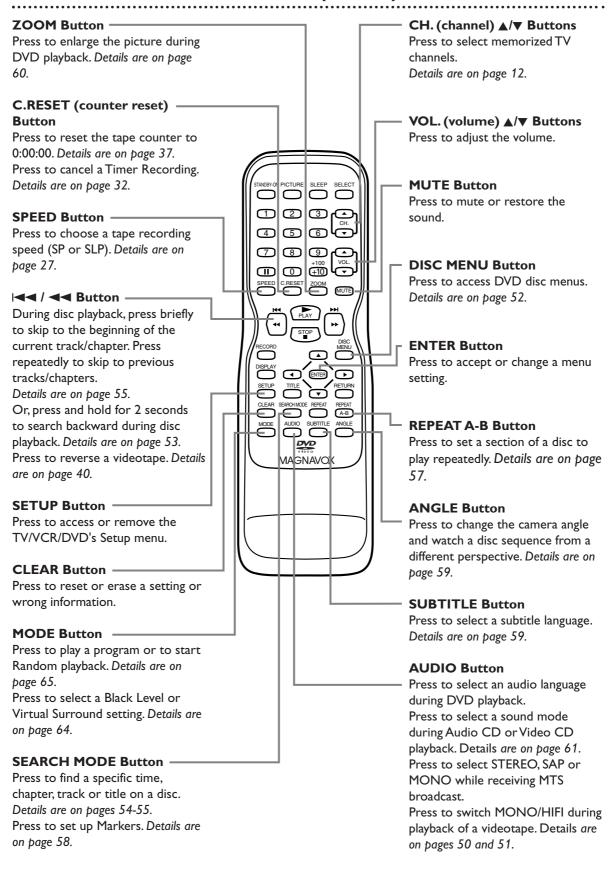
 $PLAY \triangleright (VCR)$ on the front of the unit during disc playback stops disc playback and starts tape playback.

available. Details are on page 52.

Remote Control Buttons 15

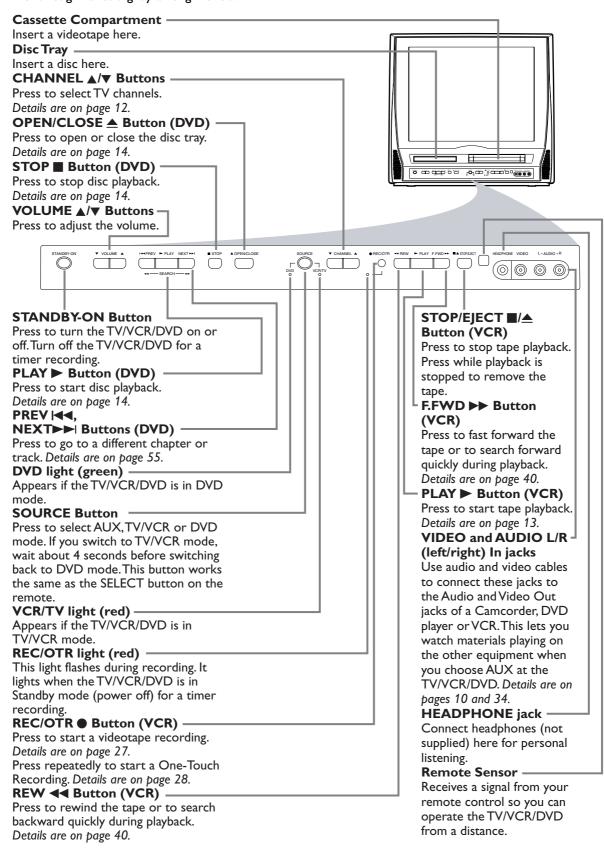


16 Remote Control Buttons (cont'd)

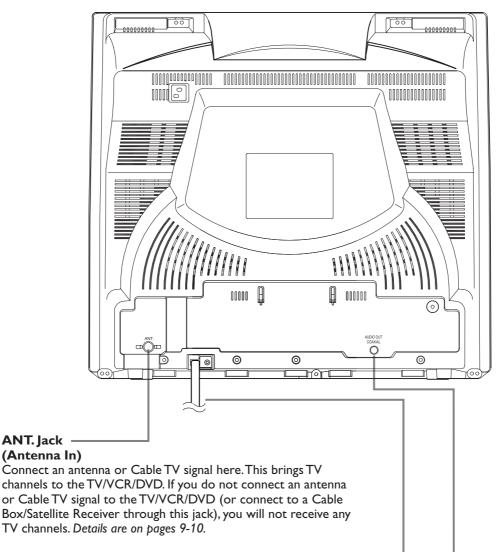


Front Panel 17

Front design varies slightly among models.



18 Rear Panel



Power Cord

Connect to a standard AC outlet (120V/60Hz).

AUDIO OUT COAXIAL Jack

Connect this jack to a Digital Stereo using a digital audio coaxial cable (not supplied). Use this connection if the Stereo has Dolby Digital compatibility and has a Digital Coaxial Audio In jack. You may also use this connection when connecting the TV/VCR/DVD to a Mini-Disc or Digital Audio Tape deck. *Details are on page 11*.

Menu Language, Auto Channel Programming 19

Menu Language This affects the language of the TV/VCR/DVD's setup menus and on-screen display terms. This does not alter the language SLEEP ON PICTURE SELEC $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ of TV programming, videotapes, discs or closed captioning. Before you begin, press SELECT to put the 123 TV/VCR/DVD in TV/VCR mode. The red VCR/TV 456. light will appear. 7 8 9 +100 +100 VOL. Press SETUP once so the TV/VCR SETUP C.RESET ZOOM menu appears. ** Press \blacktriangle or \triangledown to select LANGUAGE. 2-3 DISC MENL - TV/VCR SETUP -TIMER PROGRAMMING SETTING CLOCK SETTING CLOCK CHANNEL SET UP USER'S SET UP V-CHIP SET URITHIN LANGUAGE (ENGLISH) CAPTION [OFF]IIIII ZERO RETURN TIME SEARCH INDEX SEARCH ENTER (\mathbf{r}) SETUP ר CLEAF A-B ſ AUDIO SUBTITLE ANGLE MODE Press ENTER repeatedly to select ENGLISH, ESPAÑOL or FRANÇAIS The selected language will appear inside the []. This will be the language of the TV/VCR/DVD setup 123 menus in both TV/VCR and DVD modes. CH 4 5 6 Press SETUP to exit the menu. SPEED C.RESET ZOOM MUTE Auto Channel Programming To auto program only the channels which are available in ** 44 your area, follow the steps below. 2-3 Before you begin, put the TV/VCR/DVD in TV/VCR mode. DISC Press SELECT so the red VCR/TV light appears on the ſ front of the TV/VCR/DVD. ENTER Ċ Ì **Press SETUP.** CLEAR SEARCH MOD REPEAT Helpful Hints Press \blacktriangle or \triangledown to select CHANNEL SET UP. Then, press ENTER. The TV/VCR/DVD cannot change channels at the Cable - TV/VCR SETUP -TIMER PROGRAMMING SETTING CLOCK CHANNEL SET UP USER'S SET UP V-CHIP SET UP LANGUAGE [ENGLISH] CAPTION [OFF] ZERO RETURN TIME SEARCH INDEX SEARCH Box or Satellite Receiver. Set the TV/VCR/DVD to 3, 4 or AUX. Change channels at the Cable Box/Satellite Receiver. Channel settings will be saved even if the power fails. If you have Spanish or French Press \blacktriangle or \blacktriangledown to select AUTO CH menus and need English, press PROGRAMMING. Press ENTER. The TV/VCR/DVD memorizes available channels. When SETUP. Press \blacktriangle or \blacktriangledown to scanning is complete, the TV/VCR/DVD will go to the select IDIOMA or LANGAGE. Press ENTER to select lowest available channel. Use - CHANNEL SET UP -CH. \blacktriangle/ ∇ to scan memorized **ENGLISH.** Press SETUP to ADD / DELETE CH (CATV) channels. You can select nonremove the menu. AUTO CH PROGRAMMING memorized channels with the You cannot reset TV channels Number buttons. when the unit is in DVD mode.

20 Adding/Deleting Channels

You can delete TV channels you no longer receive or seldom watch. Or, you can add more channels if the TV/VCR/DVD did not memorize all your favorite channels.

 Before you begin, press SELECT to put the TV/VCR/DVD in TV/VCR mode. The red VCR/TV light will appear.

Press SETUP.



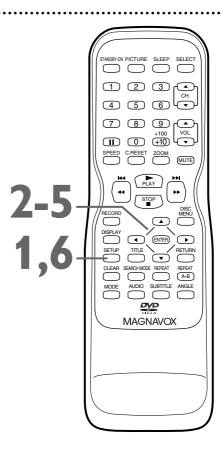
Press \blacktriangle or \blacktriangledown to select CHANNEL SET UP. Then, press ENTER.





Press \blacktriangle or \lor to select ADD/DELETE CH. (TV) or (CATV) will appear beside ADD/DELETE CH. This indicates whether you connected an Antenna (TV) or a Cable TV signal (CATV) to the TV/VCR/DVD. Then, press ENTER. The menu will disappear and a TV channel will appear. The channel number will appear, along with ADD/DELETE.

CHANNEL SET UP –
 ADD / DELETE CH (CATV)
 AUTO CH PROGRAMMING





Press \blacktriangle or \lor until the channel you wish to add or delete appears. You also can use the Number buttons or CH. \bigstar/\lor to choose a channel.



5 Pi To ch

Press ENTER to add or delete the channel. To add a channel, press ENTER so ADD and the channel number appear in light blue (teal). To delete a channel, press ENTER so DELETE and the channel number appear in light red (purple).

To delete another channel, repeat steps 4-5.



Press SETUP when you are finished.

- To confirm that a channel has been added or deleted, press CH. \blacktriangle/ \lor to see if you can or cannot select the channel. Only memorized/added channels can be selected with CH. \blacktriangle/ \lor . Use the Number buttons to select deleted channels.
- If you connected an Antenna to the TV/VCR/DVD, channels 2-69 will be available to add or delete. If you connected to Cable TV, channels 1-125 will be available.
- This function will not operate when the unit is in DVD mode.

Setting the Clock 21

Manual Clock Setting

You must set the clock before you can do a timer recording. Set the clock manually. Afterward, use Auto Clock to monitor the time. *Details are on pages 23-24*.

If you do not receive a PBS station that carries time signals, you cannot use Auto Clock. Set AUTO CLOCK to OFF. The time will remain as you set it manually.

Before you begin ...

 With the power on, press SELECT to put the TV/VCR/DVD in TV/VCR mode. The red VCR/TV light will appear.

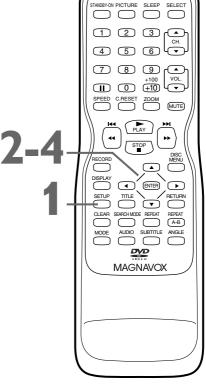
Press SETUP.

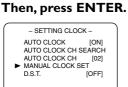


Press \blacktriangle or \blacktriangledown to select SETTING CLOCK. Then, press ENTER.

Press \blacktriangle or \blacksquare to select MANUAL CLOCK SET.









While the MONTH space is flashing, press \blacktriangle or \blacktriangledown until the correct month appears. Then, press \triangleright .

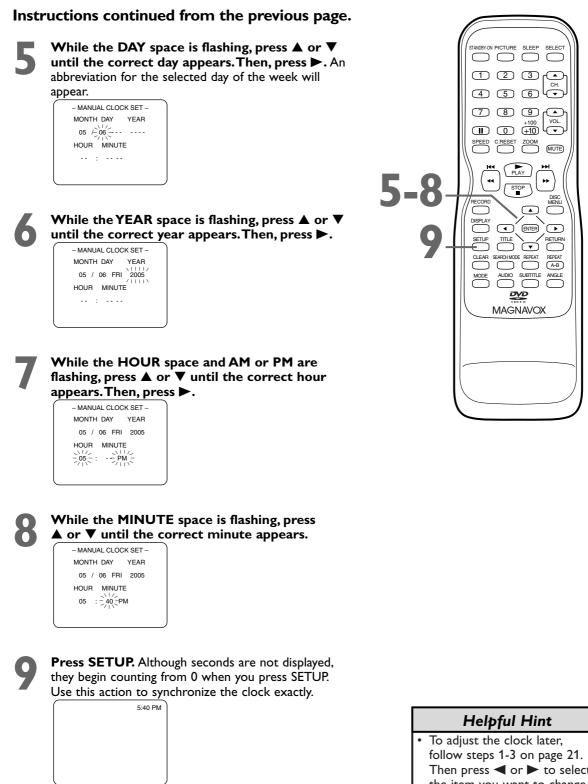
- MANUAL CLOCK SET -
MONTH DAY YEAR
-05-/
HOUR MINUTE
:

Instructions continue on the next page.

Helpful Hint

• You may have to reset the clock after a power failure.

22 Setting the Clock (cont'd)



Press DISPLAY to see the current time on the screen. Details are on page 26.

Setting the Clock (cont'd) 23

2-3

NDBY-ON PICTURE SLEEP

1 2 3 A

456.

789

SPEED C.RESET ZOOM

 \bigcirc (T) \bigcirc

44

RECOR

SETUP TITLE

MODE

È

PLAY

SELEC

VOL.

L T

MUTE

**

ENTER

SEARCH MODE REPEAT REPEAT

MAGNAVOX

DISC

 \triangleright

RETURN

Auto Clock Setting

You can have the TV/VCR/DVD adjust the clock using your PBS channel. Once you set the clock manually, the TV/VCR/DVD will monitor the correct time and date broadcast by the PBS station.

Before you begin ...

- Turn on the TV/VCR/DVD power.
- Connect the antenna/Cable TV signal. Details are on pages 9-10.
- Turn on the Cable Box/Satellite Receiver (if applicable).
- Set up the TV channels. Details are on pages 19-20.
- Set the clock manually. Details are on pages 21-22.
- Press SELECT to put the TV/VCR/DVD in TV/VCR mode. The red VCR/TV light will appear.

Press SETUP.

Press \blacktriangle or \triangledown to select SETTING CLOCK. **Press ENTER.**

- TV/VCR SETUP -INVER SETUP TIMER PROGRAMMING
 SETTING CLOCK
 CHANGLE SET UP
 VCHP SET UP

With AUTO CLOCK selected, press ENTER so **ON** appears beside AUTO CLOCK.

- SETTING CLOCK -AUTO CLOCK – [ON]– AUTO CLOCK CH SEARCH AUTO CLOCK CH [02] MANUAL CLOCK SET D.S.T. [OFF]

Instructions continue on the next page.

24 Setting the Clock (cont'd)

Instructions continued from the previous page.

If you already know your PBS channel number, skip ahead to step 8. If you do not know the channel number of your PBS station, press ▼ to select AUTO CLOCK CH SEARCH. Then press ENTER.

- SETTING CLOCK -AUTO CLOCK [ON] AUTO CLOCK CH SEARCH AUTO CLOCK CH [02] MANUAL CLOCK SET D.S.T. [OFF]

 The TV/DVD/VCR will search for a channel that carries a time signal. Channels that carry the time will appear at the top of the screen. Use one of these channels when you enter your AUTO CLOCK CH at step 9.

This may take several minutes. An "__" appears in the lower left corner of the screen when the search is complete.

- AUTO CLOCK CH SEARCH -08 10 13



Press SETUP to remove the AUTO CLOCK CH SEARCH screen.



Press SETUP to access the menu again.

7

Press \blacktriangle or \blacktriangledown to select SETTING CLOCK. Then, press ENTER.





Press ◀ or ▶ until the channel number of your PBS station appears. Use the channel number you found at step 4.

10 11

Press SETUP to remove the menu.

Press STANDBY-ON to turn off the TV/VCR/DVD and let the PBS channel update the clock.

Helpful Hints

 $\cap \cap$

0 (+10

123

4 5 67 8 9

SPEED

DISPLA

MODE AUDIO

ſ

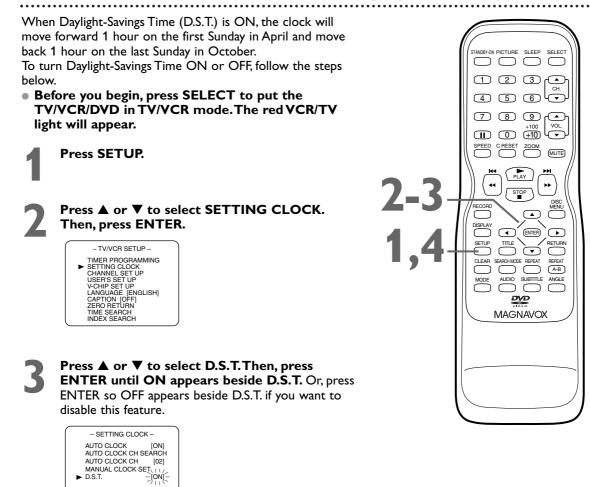
MUTE

A-B

MAGNAVOX

- During the Auto Clock Channel Search, the picture may be distorted. This is normal.
- If there are no PBS stations available, set AUTO CLOCK to OFF. Set the clock manually.
- If the TV/VCR/DVD is connected to a Cable Box or Satellite Receiver, select the local PBS station on the Cable Box/Satellite Receiver. Set the TV/VCR/DVD to the output channel of the Cable Box/Satellite Receiver (03, 04 or AUX).

Daylight-Savings Time 25





Press SETUP to remove the menu.

26 Status Displays, Picture Controls

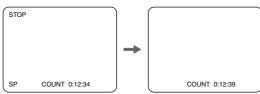
Status Displays

To see the Videotape Counter, Clock or Channel number on the screen in TV/VCR mode, press DISPLAY repeatedly. The following will occur when Closed Captions are OFF.

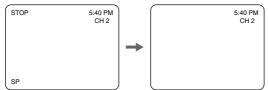


Press DISPLAY once to see the Videotape

counter. After 5 seconds, only the counter will remain on the screen.



Press DISPLAY again to see the current time and TV channel. After 5 seconds, only the clock and channel number will remain on the screen. To clear them, press DISPLAY again.



• If you press DISPLAY when Closed Captions are ON, all the status information will appear for 5 seconds. After 5 seconds, they will clear from the screen. *Closed Caption details are on page 42*.

Picture Controls

Follow these steps to adjust the TV/VCR/DVD's brightness, sharpness, tint, color or contrast.



Press PICTURE.

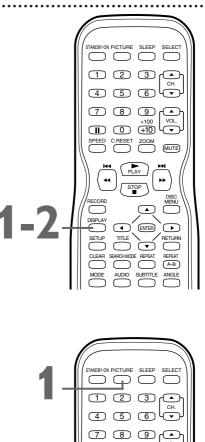
Within 5 seconds, press \blacktriangle or \lor to select the picture control you want to adjust. You can select BRIGHT, CONTRAST, COLOR, TINT or SHARPNESS.





Within 5 seconds, press \blacktriangleleft or \triangleright to adjust the picture control.

	•	►
BRIGHT	to decrease brightness	to increase brightness
CONTRAST	to decrease contrast	to increase contrast
COLOR	to decrease color	to brighten color
TINT	to add purple	to add green
SHARPNESS	to make soft	to make clear



DISPLAY

ECOR

2-3

MUTE

Helpful Hint

Degaussing: Magnetism from nearby appliances and speakers might affect the color of the TV picture. If this happens, move the TV/VCR/DVD away from the appliance. If the color is still not correct, turn off the power for 30 minutes (for 27MDTR20) or disconnect the power cord for 30 minutes (for 19MDTR20 and 20MC4304). After 30 minutes, try using the unit again.

Videotape Recording 27

TV/VCR/DVD.

Put a videotape in the

- Place a tape with its record tab intact in the cassette compartment of the TV/VCR/DVD. The TV/VCR/DVD power will come on. If the power is already on and a videotape is in the unit, make sure the unit is in TV/VCR mode. Press SELECT so the red VCR/TV light appears on the front of the unit.
- Press SPEED until the desired tape speed (SP or SLP) appears in the bottom left corner of the screen. See tape speed details below.
- Press CH. ▲/▼ or the Number buttons to select the channel you want to record. You cannot change channels during recording. You can only record and view one TV channel at a time.
 - **Press RECORD once to start recording.** The REC/OTR light will flash on the front of the TV/VCR/DVD. (If the tape does not have a record tab, the tape will eject. Insert another tape.)
 - To pause the recording, press **II**. To resume recording, press **II** again or press **RECORD**.
 - To stop recording, press STOP ■.
- Serve and subset and s

Tape Speeds

This chart shows the recording/playback time for 3 types of video cassettes (T160, T120 and T60). There are 3 playback speeds: SP, LP and SLP.A tape will play only in the speed in which it was recorded. When recording, you can change the tape speed using SPEED. You cannot record in LP speed on this TV/VCR/DVD.

The slower the speed, the more programming you can fit on the tape. SLP is the slowest speed.

	Cassette type / Playback Time			
Tape Speed	T160	T120	T60	
SP(Standard Playback)	2 hrs.	2 hrs.	1 hr.	
	40 mins.	2 111 5.		
LP(Long Playback)	5 hrs.	4 hrs.	2 hrs.	
(playback only)	20 mins.	7 1115.	z nrs.	
SLP	8 hrs.	6 hrs.	3 hrs.	
(Super Long Playback)	o nrs.	o nrs.	5 III'S.	

- You cannot record DVD contents onto a videotape using this unit.
- Recording options are on pages 28-33.
- If you pause a recording for 5 minutes, the unit will start Recording again automatically.
- You can change the tape speed by pressing SPEED while a recording is in progress. Some distortion may appear on the tape.

28 One-Touch Recording

A One-Touch Recording (OTR) is an immediate timed recording from 30 minutes to 8 hours long.

Before you begin ...

- Turn on the TV/VCR/DVD.
- Press SELECT to put the unit in TV/VCR mode. The red VCR/TV light will appear on the front of the unit.
- Insert a videotape with its erase prevention tab in place. Details are on page 8.

Press the Number buttons or CH. \blacktriangle/V to select the channel you want to record.

Remember, if the TV/VCR/DVD is connected to a Cable Box/Satellite Receiver, the TV/VCR/DVD must be on channel 3, 4 or AUX. Select the channel you want to record at the Cable Box/Satellite Receiver. *Details are on page 9*.

2

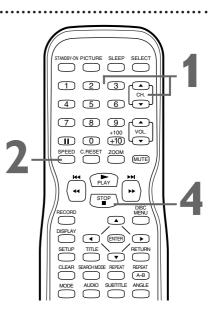
Press SPEED to select a tape recording speed (SP or SLP). Details are on page 27.

3

Press REC/OTR ● on the front of the TV/VCR/DVD repeatedly to select a recording length. Recording will start immediately. Each press of REC/OTR ● will increase the recording time by 30 minutes. The maximum recording length is 8 hours.

OTR (2:30)

Press STOP ■ to stop a one-touch recording before its designated end time. Otherwise, recording will stop at the time you designated. The TV/VCR/DVD will turn off when the OTR ends.



Helpful Hints

Press REC/OTR \bullet on the front of the TV/VCR/DVD.

- You cannot start an OTR with the RECORD button on the remote control.
- To show the remaining recording time, press DISPLAY. OTR and the remaining recording time will appear briefly in the top left corner of the screen.
- If the tape ends before the recording's end time, the TV/VCR/DVD will stop recording, eject the tape, and turn itself off.
- An OTR will continue even if you turn off the TV/VCR/DVD. The flashing REC/OTR light indicates the recording is still in progress.
- To change the recording length while an OTR is in progress, press REC/OTR ● repeatedly.
- You cannot pause an OTR.
 If the preset time for a timer recording comes up during an OTR, the OTR has priority. The timer recording will not take place.

Timer Recording 29

Follow the steps below to program the TV/VCR/DVD to record TV programs while you're away from home. The TV/VCR/DVD will record and turn itself off automatically. You can set a maximum of 8 timer recordings.

Before you begin, make sure ...

- The clock is set. If the clock is not set, the Manual Clock Set menu will appear. See pages 21-22 to set the clock.
- Channels are set. Details are on page 19.
- A tape is in the TV/VCR/DVD. Make sure the record tab is intact. Details are on page 8.

Press SETUP. Press \blacktriangle or \triangledown to select TIMER PROGRAMMING, then press ENTER.





Press \blacktriangle or \triangledown to select a program position. Then, press \blacktriangleright .

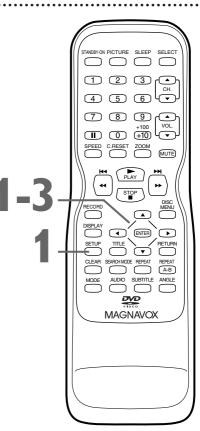
- TIMER PROGRAMMING -					
	СН	DATE		END	
		-/	- :	- (
		-/	- (- :	
		-/	- (- (
-•	£	-/	- (- (
- /1 /	·	-/	- (- (
		-/	- (- (
		-/	- :	- (
		-/	- :	- (



While CH is selected, press \blacktriangle or \lor to select the channel you want to record. Then press \triangleright . If the TV/VCR/DVD is connected to a Cable Box/Satellite Receiver, the TV/VCR/DVD must be on channel 3, 4 or AUX.

Set CH as 03, 04 or AUX in the Timer Programming menu. Choose the channel you want to record at the Cable Box/Satellite Receiver. Leave the Cable Box/Satellite Receiver on for the timer recording. Leave the TV/VCR/DVD set to AUX. (Press SELECT on the remote to choose AUX at the TV/VCR/DVD.) Additional details are on page 9.

-т	IMER PRO	OGRAM	/ING -	-
	DATE		END	
► <u>61</u>	-/			
	-/ -/			
	-/	-:	- :	



- You cannot access the Timer Programming menu at step 1 if the clock is not set. The Setting Clock menu will appear. Follow the steps on pages 21-24 to set the clock.
- Enter the information while the space is flashing.

30 Timer Recording (cont'd)

4

While DATE is selected, press \blacktriangle or \triangledown until the correct date appears. Recording will happen once.

́-т	IMER PR	OGRAN	IMING	-)
CH	DATE		N END	
	-/	- :	- (
	-/	- :	- :	
	s/mmn	, -:	- ;	
► 61	7/04 MON		- 1	
	2901000	·		
	-/			
	-/			
	-/			
	,	•	•	

Or, to record a program at the same time on the same channel every day, press ▼ until EVRY DAY appears.

- T	IMER PR	OGRAN	IMING	_
СН	DATE			
	-/	:	- (
	-/	:	- :	
		:	- :	
► 61-	EVRY DAY	(:	- ;	
·	20000	· · · · ·	- 1	
	-/			
	-/			
	-/			
	-,			

Or, to record a program at the same time on the same channel every week, press \triangledown until EVRY and a day of the week appear together.

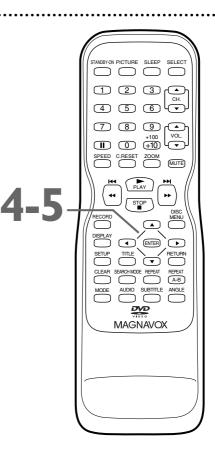
-1	FIMER PF	ROGRAM	MING	_
CH	DATE		END	
	-/	-:	- (
	-/	-:	- (
		/ :	- (
► 61 -	EVRY SUN	5-:	- (
	2,400,000	`-:	- (
	-/	-:	- (
	-/	-:	- (
	-/	-:	- (

Finally, press ►.

5

While BEGIN is selected, press \blacktriangle or \checkmark to select the hour you want recording to begin. AM or PM will appear with the hour. Then, press \triangleright and press \blacktriangle or \checkmark to select the minute you want recording to start. Press \triangleright .

\bigcap	– T	IMER PRC	GRAM	/ING -	- `
	СН	DATE	BEGIN	END	
		-/			
	 6 1	-/ 7/04 MON-		- :	
		-/	2:00		
		-/			
		- /		- :	
l					



Timer Recording (cont'd) 31

While END is selected, press \blacktriangle or \lor to select the hour at which you want recording to stop. AM or PM will appear with the hour. Then, press \blacktriangleright and press \blacktriangle or \blacktriangledown to select the minute at which you want recording to end. Press \triangleright .

- TIMER PROGRAMMING -
CH DATE BEGIN END
/:::
/:::
▶ 61 7/04 MON 7:30 [®] - 8:50 [®]
7.000
/:::
/:::
/:::

7

Press \blacktriangle or \triangledown until the tape speed (SP or SLP) appears at the right end of the line.

\bigcap	- TIMER PROGRAMMING -					
		DATE				
		-/				
	61	-/ 7/04 MON	7:30⁰⊭	8:50%	SP-	
		-/		121	200	
		-/				
l		-/	-:	- :		

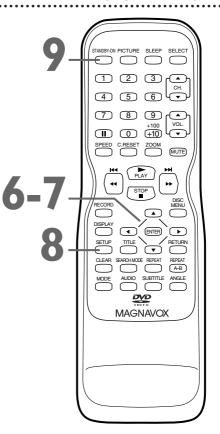


Press SETUP to remove the menus.

Press STANDBY-ON to turn off the TV/VCR/DVD and set the timer recording.

The red REC/OTR light will appear on the front of the TV/VCR/DVD.

You must turn off the TV/VCR/DVD to activate a timer recording. If the power is not off and you continue watching TV, TIMER REC STANDBY starts flashing on the screen 2 minutes before the programmed start time. Turn off the unit to do the recording.



- While a timer recording is in progress, the red REC/OTR light will flash.
- If a timer recording is set for hours or days later, you can use the TV/VCR/DVD until then. Just be sure to turn off the TV/VCR/DVD about 5 minutes before the recording. Set the Cable Box/Satellite Receiver if appropriate.
- If the record tab is missing, the videotape will eject when you press STANDBY-ON to turn off the TV/VCR/DVD. Insert a recordable tape for the timer recording.
- If the tape ends before the recording is complete, the TV/VCR/DVD will stop recording immediately and eject the tape.

32 Timer Recording (cont'd)

Extending a Timer Recording

To make a Timer Recording start and end later than originally scheduled, follow these steps.

- 1 With the unit on, press SETUP. Press ▲ or ▼ to select TIMER PROGRAMMING. Press ENTER.
- 2 Press RECORD, then press \blacktriangle or \triangledown to select the desired program.
- 3 Press RECORD again. Each press of RECORD will shift forward the beginning/end time by 10 minutes. If the recording is in progress, each press will shift forward the end time only. If you adjust the times during recording, the recording speed automatically changes to SLP. To restore the original recording times, press II.
- 4 Press SETUP to remove the menus.
- 5 If the timer recording is scheduled to start later, press STANDBY-ON to turn off the TV/VCR/DVD for the recording.

Correcting a Timer Recording

- 1 With the unit on, press SETUP. Press ▲ or ▼ to select TIMER PROGRAMMING. Press ENTER.
- 2 Press \blacktriangle or \triangledown to select a timer recording, then press \blacktriangleright .
- 3 Press ◄ or ► to select the information you want to change. Press ▲ or ▼ to enter the correct information.
- **4** Press SETUP to remove the menu.
- 5 Press STANDBY-ON to turn off the TV/VCR/DVD to set the recording.

Cancelling Timer Recordings

To cancel a Timer Recording that is in progress:

1 The red REC/OTR light will flash during recording. Press STANDBY-ON to turn on the TV/VCR/DVD, then press STOP/EJECT ■/▲ on the front of the TV/VCR/DVD.

To cancel a Timer Recording that has not started:

- 1 With the unit on, press SETUP.
- Press ▲ or ▼ to select TIMER PROGRAMMING. Press ENTER.
- Press ▲ or ▼ to select a timer recording.
- 3 Press C.RESET. All the information for the selected recording will disappear.
- **4** Press SETUP to remove the menu.

Checking Scheduled Timer Recordings

- 1 With the unit on, press SETUP.
- Press \blacktriangle or \triangledown to select TIMER PROGRAMMING.
- **2** Press ENTER. The program details will appear on the screen.
- **3** Press SETUP to remove the menu.

Timer Recording Auto Return 33

Use this feature to rewind the tape to the beginning of a completed timer recording.

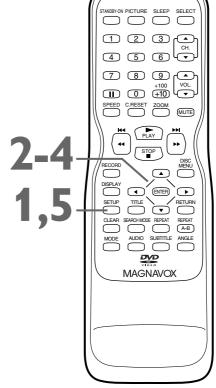


Press SETUP.



Press \blacktriangle or \blacktriangledown to select USER'S SET UP. Then, press ENTER.





Press ENTER until ON appears beside AUTO RETURN. To turn off Auto Return, press ENTER to choose OFF instead.

Press \blacktriangle or \triangledown to select AUTO RETURN.

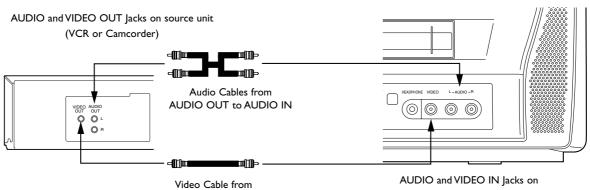
- USER'S SE	ET UP –
RENTAL REPEAT PLAY AUTO RETUR	[OFF] (@FF] N-[ON]- ////



Press SETUP. When AUTO RETURN is ON, when all the timer recordings are completed, the tape will rewind to the beginning of the recorded program(s).

- If you press STANDBY-ON while the tape is rewinding, the rewinding will stop.
- If there is a power failure, the TV/VCR/DVD will retain its memory for this feature.

34 Rerecording (Tape Duplication)



VIDEO OUT to VIDEO IN

AUDIO and VIDEO IN Jacks on front of TV/VCR/DVD

Make the connections shown above. Use audio and video cables (not supplied). Connect the source unit (VCR or Camcorder) to a power source after connections are made.

The VCR or Camcorder will play your tape. Insert a prerecorded tape in the source unit. If playback begins, press STOP on the VCR or Camcorder.

The TV/VCR/DVD will record your tape. Insert a blank videotape in the cassette compartment of the TV/VCR/DVD. Make sure the tape's record tab is intact and the TV/VCR/DVD power is on.

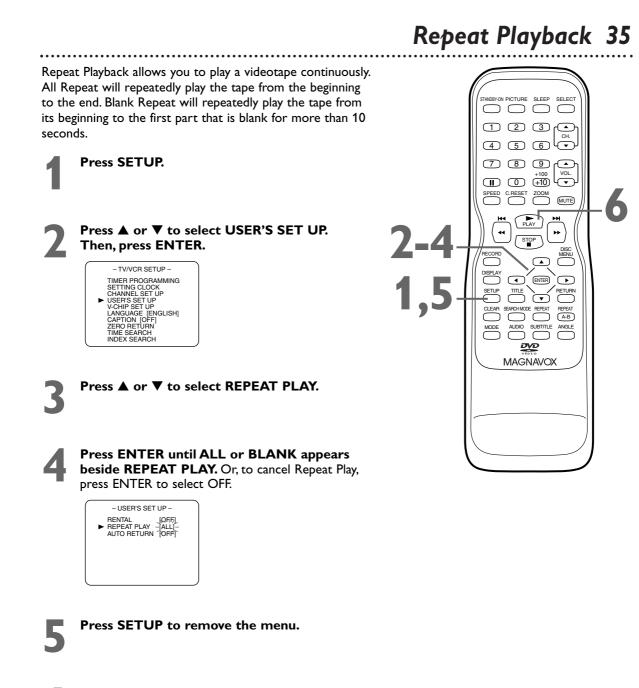
Point the TV/VCR/DVD remote control at the TV/VCR/DVD. Press SELECT or CH. ▲/▼ until AUX appears on the screen. The TV/VCR/DVD is now in Line Input or Auxiliary mode.

Press SPEED until the desired tape speed (SP or SLP) appears in the lower left corner of the screen.

Press PLAY ► on the VCR or Camcorder and **REC/OTR** • on your **TV/VCR/DVD** at the same time. Videotape copying will begin.

To stop copying, press STOP/EJECT \blacksquare / \triangleq on the TV/VCR/DVD, then stop the tape on the VCR or Camcorder.

- Unauthorized recording of copyrighted television programs, videotapes or other materials may infringe on the rights of copyright owners and violate copyright laws.
- Different brands of equipment may operate differently.
- Make sure all connections are secure. Otherwise, you may not record both picture and sound.
- Programs that are copyright protected may not record clearly.
- You cannot record a DVD onto a videotape using this TV/VCR/DVD.
- You can use this connection to simply view tapes playing on a camcorder or VCR at the TV/VCR/DVD. Follow steps 1, 2 and 4 for connections and AUX setup. Then play the tape on the camcorder, etc., as usual.



6

Press PLAY \blacktriangleright to play a videotape. REPEAT PLAY \blacktriangleright will appear on the screen briefly.

- Repeat Playback stays in effect after you turn off the TV/VCR/DVD.The TV/VCR/DVD keeps the Repeat Playback setting even if the power fails.
- If RENTAL is ON, RENTAL PLAY ▶ will appear on the screen instead of REPEAT PLAY ▶. Details are on page 36.

36 Rental Playback

This function enables you to improve picture quality when playing worn cassettes such as rented videotapes.

Press SETUP.

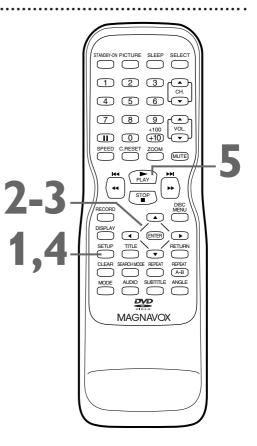






Press \blacktriangle or \lor to select RENTAL. Press ENTER until ON appears beside RENTAL. To turn off Rental, press ENTER to choose OFF.







Press SETUP to exit the menu.



Press PLAY \blacktriangleright to start videotape playback. RENTAL PLAY \blacktriangleright will appear briefly on the screen.

- Once you select Rental Playback, it stays in effect even after you turn off the TV/VCR/DVD.
- The TV/VCR/DVD will retain the Rental setting even if the power fails.

Zero Return, Sleep Timer 37

Zero Return

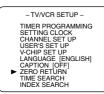
The videotape counter shows the elapsed recording or playback time in hours, minutes and seconds from the point at which the counter was set to 0. The counter time will not change on a blank tape or blank portions on a tape. The "–" before the tape counter indicates the amount of remaining recording/playing time before the counter reaches 0. Follow the steps below to reset the tape counter to 0 at a tape location you want to refer to later.

Play, rewind or fast forward the tape to the location you would like to refer to later. Press STOP ■ to stop the tape.

Press C.RESET to set the counter to 0:00:00.

To return to this same point later, press SETUP. Press \blacktriangle or \blacktriangledown to select ZERO RETURN. Then, press ENTER.

The tape counter will appear on the screen. When the tape reaches the point at which you set the counter to 0, the tape will stop. Press PLAY \blacktriangleright to watch the tape from the designated point.



Sleep Timer

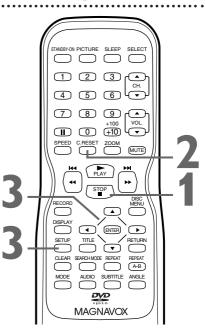
Use the Sleep Timer to program the TV/VCR/DVD to shut off in a certain amount of time.

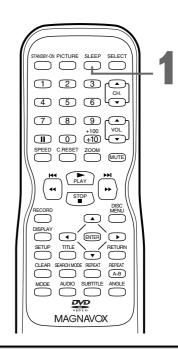


Press SLEEP until the correct amount of time appears on the screen with SLEEP. Each press of SLEEP will increase the time by 30 minutes. You may set a Sleep Timer of 30, 60, 90 or 120 minutes. After 5 seconds, the Sleep Timer information will disappear from the screen. The TV/VCR/DVD will turn itself off after the selected amount of time has passed.



To Cancel the Sleep Timer Press SLEEP until "SLEEP 0 MINUTE" appears.





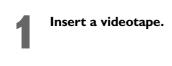
Helpful Hint

• To see how much time remains before the TV/VCR/DVD turns itself off, press SLEEP once. The information will disappear automatically in 5 seconds.

38 Time Search

Time Search lets you quickly advance the videotape to a position simply by entering the amount of playback time you want to skip.

In the example below, Time Search is set to 2 hours, 50 minutes from the present position.



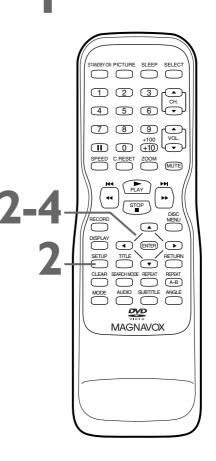
Press SETUP. Press \blacktriangle or \blacktriangledown to select TIME SEARCH. Then, press ENTER.



Press ▲ or ▼ until your desired time appears beneath TIME SEARCH at the top of the

beneath TIME SEARCH at the top of the screen. (Example: 2:50 for 2 hours, 50 minutes) Each press of \blacktriangle or \blacktriangledown increases or decreases the length of time by 10 minutes. To cancel the Time Search at this point, press SETUP.

TIMEISEARCH -2:50-7:1



Insert a videotape.



Press \blacktriangleleft or \blacktriangleright to rewind or fast forward the tape the length of time you chose.

The TV/VCR/DVD will rewind or fast forward the tape the specified amount of time.

The time counts down on the screen as the search progresses. When 0:00 is reached, the tape will start playing.

Or, to cancel the Time Search before it finishes, press STOP \blacksquare .

- A Time Search can be set up to a maximum of 9 hours 50 minutes in 10-minute increments.
- Time Search will not operate during recording.

This feature lets you quickly rewind or fast forward to the start of recordings.

 Index Marks are made automatically at the start of all recordings. They are not made where recording pauses. The time gap between Index Marks should be greater than 1 minute for SP recording and 3 minutes for SLP recording. This means recordings should be 1 (SP) or 3 (SLP) minutes long. Otherwise, Index Search may not find the start of the recording. In some cases, Index Marks at the beginning of a videotape cannot be detected.

Press SETUP. Press \blacktriangle or \triangledown to select INDEX SEARCH. Then, press ENTER.

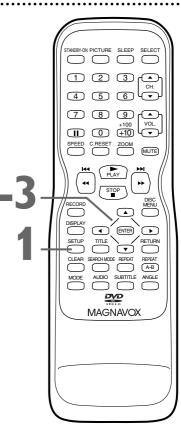


Press \blacktriangle or \triangledown until the number of programs you want to skip appears beneath INDEX SEARCH. To cancel an Index Search at this point, press SETUP.

Press \triangleleft or \triangleright . The TV/VCR/DVD begins rewinding or fast forwarding the videotape to the beginning of the desired program.

When the program is reached, playback will start.

Index Search 39



- Every time an Index Mark (or recording) is passed, the number beneath INDEX SEARCH on the screen decreases by one.
- A videotape must be in the TV/VCR/DVD for this function to work.
- You may search up to 20 Index Marks.
- This function will not operate during recording.
- To cancel an Index Search, press STOP ■.
- If the end of the tape is reached during an Index Search(forward), the tape will rewind to the beginning automatically. The TV/VCR/DVD will turn off and the tape will eject.

40 Videotape Playback Features

Slow Motion

Press ■ during playback to pause the videotape. Then press >> 1 / >> to start slow motion. Sound will be mute during slow motion. Slow motion will stop automatically after 5 minutes to prevent damage to the tape.

2 Pre

Press PLAY \blacktriangleright to return to normal playback.

Forward and Reverse Searching (SP/LP/SLP)

During videotape playback, press and release I ◄ / ◄ or ►►I / ►►. A fast forward or reverse picture search will begin.

2

To return to normal playback, press PLAY \blacktriangleright .

Super High Speed Searching (LP/SLP)

During tape playback, press I ◄ / ◄ or ► I / ► , then press again. The TV/VCR/DVD will search the tape in high speed. Press I ◄ / ◄ or ► I / ► repeatedly to switch between regular and high speed searching.



To return to normal playback, press PLAY ►.

Viewing a Still Picture

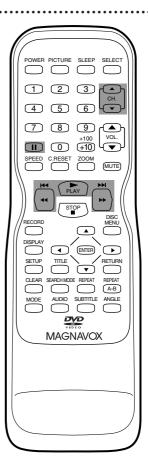
During tape playback, press II .

A still picture will appear on the screen. The picture advances each time you press II. After a tape is paused for 5 minutes, playback will stop automatically. This prevents damage to the tape and TV/VCR/DVD.

2

If the still picture vibrates vertically, stabilize the picture by pressing CH. \blacktriangle or \blacktriangledown .

To release the still picture and return to normal playback, press PLAY ►.



- SP/LP/SLP means this feature will work with tapes recorded in Standard Playback, Long Playback or Super Long Playback. LP/SLP means this feature will work with tapes recorded in Long Playback and Super Long Playback. Tape speed details are on page 27
- speed details are on page 27.
 During forward and reverse searching, horizontal noise bars will appear on the screen.

Automatic Operation Features 41

The following videotape features are available.

Automatic Rewind, Eject, Off

When you play, fast forward or record a videotape to its end, the TV/VCR/DVD will rewind the tape, stop, turn itself off, and eject the tape.

If Repeat Play is activated, playback will start again instead.

Details are on page 35.

The tape will not rewind automatically after a timer recording or One-Touch Recording ends. To rewind a tape after timer recordings, see Auto Return details on page 33.

Automatic Tracking Adjustment

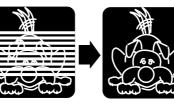
The TV/VCR/DVD automatically adjusts the videotape tracking to give you the best possible picture quality. With some recordings, however, you may get a better picture using the manual tracking controls (see below).

Manual Tracking

To adjust the tracking manually, press CHANNEL $\blacktriangle/\checkmark$ on the front of the TV/VCR/DVD or CH. $\blacktriangle/\checkmark$ on the remote control during playback.

Tracking returns to Automatic Tracking Adjustment when you insert a tape or press STOP .

Before Tracking Adjustment



After Tracking Adjustment

42 Closed Captions

Follow the steps below to select closed captions for TV programming. Not all TV programs and commercials have closed captions or all types of closed captions (second language, half-screen text, etc.). If closed captioning is not broadcast, you cannot receive it. This does not indicate a problem with the TV/VCR/DVD. Check your TV program listings for shows with closed captions.

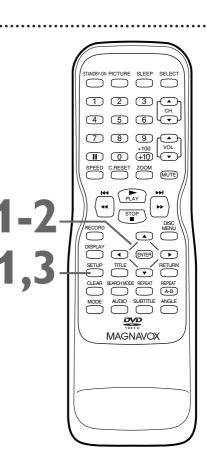
If the TV/VCR/DVD receives poor quality television signals, the captions may contain errors, or there might be no captions at all. Some possible causes of poor quality signals are:

- Automobile ignition noise
- Electric motor noise
- Weak signal reception
- Multiplex signal reception (ghosts or screen flutter)
- Playing poorly recorded or worn videotapes.



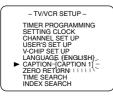
Press SETUP. Press \blacktriangle or \triangledown to select CAPTION.





Press ENTER repeatedly to select CAPTION1, CAPTION2, TEXT1, TEXT2 or OFF.

CAPTION1 displays standard closed captions (what a character is saying). CAPTION2 displays foreign language closed captions (foreign language words showing what a character is saying). TEXT1 and TEXT2 display half-screen text (such as a channel guide, schedule or announcement). OFF turns off closed captions. Captions will not appear on the screen.





Press SETUP to exit the menu.

- If a black box appears on the screen, a TEXT mode is selected. Select CAPTION1, CAPTION2 or OFF.
- The TV/VCR/DVD retains the Closed Caption setting if the power fails.
- Abbreviations, symbols and other grammatical shortcuts may be used in order to keep pace with the on-screen action. This is not a problem with the TV/VCR/DVD.
- Changing channels may delay closed captions for a few seconds.
- Adjusting or muting the volume may delay closed captions for a few seconds.

Setting V-Chip 43

TV Rating Settings

V-CHIP enables parents to prevent their children from watching inappropriate material on TV.V-CHIP reads the ratings for programming (except for news and sports programs, unedited movies on premium cable channels, and Emergency Broadcast System signals), then denies access to programming if the program's rating meets the limitations you select. In this case, a "PROTECTED PROGRAM by ..." message appears on the TV screen.

If the "PROTECTED..." message appears during your TV viewing, change to a channel that is not blocked. Then, you can access the V-Chip Setup menu and change the settings to allow all TV viewing.

Programming may be rated by the Motion Picture Association of America (MPAA) or according to the Television Parental Guidelines. To block any inappropriate programming, set your limits in both MPAA RATING and TV RATING.

Before you begin, make sure ...

- The TV/VCR/DVD is on.
- The unit is in TV/VCR mode. Press SELECT on the remote until you see TV channels and see the red VCR/TV light on the front of the TV/VCR/DVD.

Press SETUP. Press \blacktriangle or \triangledown to select V-CHIP SET UP. Then, press ENTER.





Press the Number buttons to enter the 4-digit access code. When entering the access code for the first time or if there has been a power failure, enter default code 0000. 4 Xs will appear instead of your code. This protects the identity of your code.

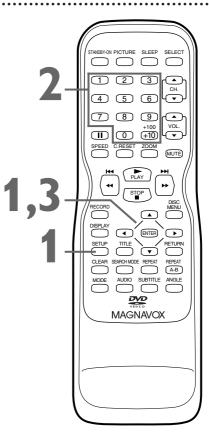
ACCESS CODE	
- <u> </u>	



Press \blacktriangle or \blacktriangledown to select TV RATING. Then, press ENTER.



Instructions continue on the next page.

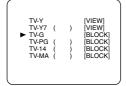


TV Rating Explanations

- TV-Y Appropriate for all children
- TV-Y7 Appropriate for
- children seven and older
- TV-G General Audience
 TV-PG Parental Guidance
- suggested.
- TV-14 Unsuitable for children under 14
- TV-MA Mature audience only

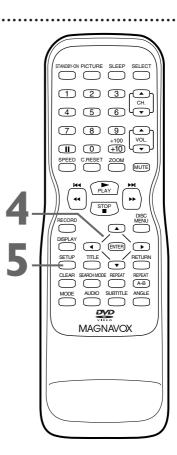
Instructions continued from the previous page.

Press ▲ or ▼ to select the TV Rating level at which you want to block viewing, then press ENTER once. If you press ENTER again, the subratings for that category will appear. Details are on pages 45-46. When you select the rating category and set it to BLOCK, the higher ratings will turn to BLOCK automatically. Lower ratings will turn to VIEW. When you set "TV-Y" to VIEW (or BLOCK), all ratings will turn to VIEW (or BLOCK) automatically.





Press SETUP to save your settings and remove the menus.



- If you want to disable V-Chip so you can view all TV programming, set TV-Y to VIEW.
- The V-CHIP settings will be retained after a power failure (except the access code reverts to 0000).

TV Rating Subratings

When you select TV-Y7, TV-PG, TV-14 or TV-MA, you can use the subratings to block specific elements of programming, such as language or violence.

Press SETUP.



Press \blacktriangle or \blacktriangledown to select V-CHIP SET UP. Press ENTER.





Press the Number buttons to enter the 4-digit access code. The default code is 0000 (if you have not set up your own code yet or if there has been a power failure).

ACCESS CODE	
- <u>)</u>	

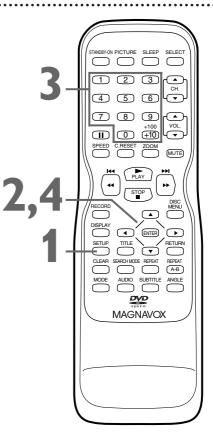


Press ▲ or ▼ to select TV RATING. Press ENTER.

> TV RATING MPAA RATING CHANGE CODE

- V-CHIP SET UP -

Instructions continue on the next page.



Instructions continued from the previous page.

5

Press \blacktriangle or \blacktriangledown to select the rating you wish to adjust. Then, press ENTER twice to go to its subratings.

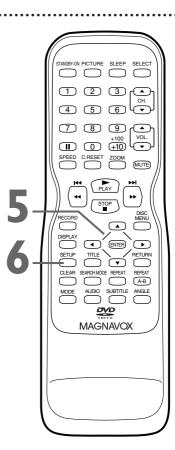
[BLOCK]
[BLOCK]

Example: TV-Y7 subratings

• When you select TV-Y7:

Press ▲ or ▼ to select FV (Fantasy Violence, violence that seems realistic to young children).
Then, press ENTER to select BLOCK or VIEW.
When you select TV-PG, TV-14 or TV-MA:
Press ▲ or ▼ to select "D" (Suggestive Dialog), "L" (Coarse Language), "S" (Sexual Situation) or "V" (Violence). Then, press ENTER repeatedly to select BLOCK or VIEW for each subrating.
To go to the previous menu, press RETURN.

Press SETUP to save your settings and remove the menus.



- Dialog (D) is not an available subrating for TV-MA.
- Blocked subratings will appear beside the rating category in the TV Ratings menu.
- You cannot BLOCK a subrating (D, L, S or V) if the main category is set to VIEW. However, you can set a subrating to VIEW even when the main category is set to BLOCK.
- Changing the category to BLOCK or VIEW automatically changes all its subratings to the same (BLOCK or VIEW).

MPAA Rating Settings

You can block TV channel viewing according to the Motion Picture Association ratings. To do so, follow these steps.

Press SETUP.



Press \blacktriangle or \blacktriangledown to select V-CHIP SET UP. Then, press ENTER.



SLEEP ON PICTURE 123 4 5 6 789 -SPEED MUTE ** DISC ENTER \triangleright 6 SETUP TITLE RETURN Ċ \supset CLEAR SEARCH MODE REPEAT REPEAT A-B ٢ MODE ANGLE <u>w</u> MAGNAVOX

Press the Number buttons to enter the 4-digit access code. (The default code is 0000 if you have not set up your own code yet or if the power has failed.)

ACCESS CODE

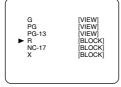
Press \blacktriangle or \blacktriangledown to select MPAA RATING. Then, press ENTER.





Press \blacktriangle or \triangledown to select the level at which you want to block viewing. Then, press ENTER to select BLOCK or VIEW.

When you Block a category, higher ratings turn to BLOCK automatically. Lower ratings turn to VIEW. When you set G to VIEW or BLOCK, all ratings turn to VIEW or BLOCK automatically.





Press SETUP to save your settings and remove the menus.

MPAA Rating Explanations

- G General Audience
- PG Parental Guidance suggested.
 PG-13 Unsuitable for children
- under 13
- R Restricted; under 17 requires accompanying parent or adult guardian
- NC-17 No one under 17 admitted
- X Mature audience only

- To disable all the MPAA Ratings, set G to VIEW.
- The V-CHIP settings will be retained after a power failure (except the access code reverts to 0000).

48 Setting V-Chip (cont'd) **Changing the Access Code** Although the default code 0000 is supplied with the TV/VCR/DVD, you can set your own access code. SLEEP 123 **Press SETUP.** (5) (6)4 $\overline{7}$ 89 Press \blacktriangle or \triangledown to select V-CHIP SET UP. Then, press ENTER. MUTE Press the Number buttons to enter the old DISC access code. When doing this for the first time, use [▲] 0000. 4 Xs will appear instead of the code to protect ENTER \triangleright its identity. CLEAF ACCESS CODE A-B MODE ANGLE AUDIO - _ _ _ _ DVD MAGNAVOX Press \blacktriangle or \triangledown to select CHANGE CODE. Then, press ENTER. - V-CHIP SET UP -TV RATING MPAA RATING CHANGE CODE Press the Number buttons to enter your preferred access code in the NEW CODE space. Then, enter the same code in the CONFIRM CODE space. Again, Xs will appear instead of the code numbers. The access code must have exactly 4 digits. The V-CHIP SET UP screen will reappear. NEW CODE





Press SETUP to save your settings and remove the menus.

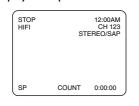
- If you enter the wrong code in the CONFIRM CODE space, repeat step 5. Enter the same new code exactly in the CONFIRM CODE space.
- If you unplug the power cord or if the power fails, the default code will be active again (0000). Change your access code again as necessary.

Multi-Channel Television Sound (MTS) 49

You can set the TV/VCR/DVD to receive or record TV programs in Stereo, Second Audio or Monaural Sound. Also, you can set the TV/VCR/DVD to play videotapes in either High Fidelity (HIFI) or Monaural (MONO or single-channel) sound. See pages 50-51 on how to set the sound mode.

1

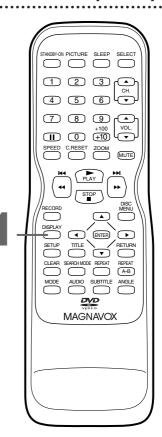
Press DISPLAY to see the sound status. During TV viewing, press DISPLAY twice. During tape playback, press DISPLAY once.



When a TV program is broadcast in stereo, STEREO appears in the top right corner of the screen. When a TV program is broadcast in second audio, SAP appears in the top right corner of the screen. When a TV program is broadcast both in stereo and second audio, STEREO and SAP both appear.

Although a program may be broadcast in both stereo and second audio, you cannot record in both stereo and second audio at the same time.

During tape playback, HIFI will appear in the top left corner of the screen if VCR AUDIO is set to HIFI. *Details are on page 50*. If you play non-HIFI tapes while VCR AUDIO is set to HIFI, HIFI will disappear from the screen. The videotape will play in monaural sound. You must set the TV/VCR/DVD to record in either STEREO or SAP. Do this by changing the TV AUDIO setting as described on page 51.



50 Multi-Channel Television Sound (MTS) (cont'd)

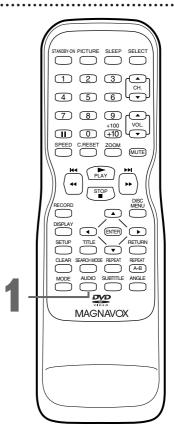
For TV Audio

While receiving an MTS broadcast, press AUDIO repeatedly to select STEREO, SAP (Second Audio Program) or MONO.

• The output mode changes as described below every time you press the button.



The current mode appears on the TV screen for about 5 seconds.



- The initial setting is STEREO.
- When recording a TV program, TV/VCR/DVD records MTS broadcasts in HIFI stereo sound automatically unless you select SAP mode recording beforehand.
- This setting is saved even if the until is turned off.
- If you select second audio when second audio is not available, the TV/VCR/DVD will receive and record normal audio.

Multi-Channel Television Sound (MTS) (cont'd) 51

For VCR Audio

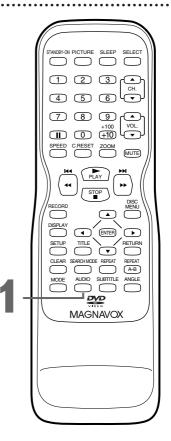
1

During playback of a videotape, press AUDIO to select HIFI or MONO.

- The current mode appears on the TV screen for about 5 seconds.
- The initial setting is HIFI.
- This setting is saved until the cassette is ejected.

For External Devices

- Pressing AUDIO does not affect the audio output mode of an external device.
- The current audio output mode of an external device does not appear on the TV screen.



- Non-HIFI tapes will play in monaural automatically.
- When playing a non-HIFI tape, pressing AUDIO will only affect the display shown on the TV screen but it does not affect the actual sound mode.
- MTS broadcasts automatically record in HIFI unless you select SAP before recording. Details are on page 50.

52 DVD Disc Menus, Title Menus

Disc Menus

Some DVDs contain menus that describe the contents of the disc or allow you to customize disc playback. For example, the menu may offer choices for subtitle languages, special features or scene selection.

To use the DVD disc menu and select playback features, follow these steps.

• Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.

Press DISC MENU. The DVD's disc menu will appear.

Press \blacktriangle , \bigtriangledown , \triangleleft or \triangleright to select an item, then press ENTER. Continue this process to set up all the features you want or to start disc playback.

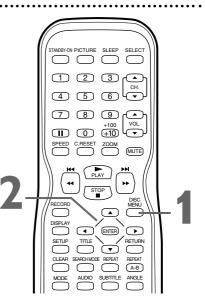
Title Menus

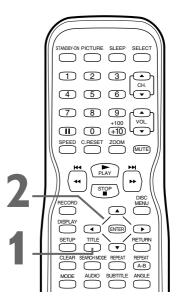
Some DVDs have a title menu, which lists the titles available on the DVD. Use the title menu to play a specific Title. • Before you begin, press SELECT to put the

TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.

Press TITLE. The title menu will appear. If a title menu is not available, the "X" may appear on the TV screen. Or, if the DVD only has a main menu as described above, it may appear when you press TITLE.

Press \blacktriangle , \bigtriangledown , \triangleleft or \triangleright to select a title, then press **ENTER**. Playback will begin at the title you selected.





- Menus vary among discs. Follow the information with the DVD.
- Not all DVDs have disc or title menus.
- Some DVDs may refer to chapters as "scenes." Some DVDs may refer to the title menu as the "scene index."
- TITLE may not be active with all DVDs.

Fast Forward/Reverse Search 53

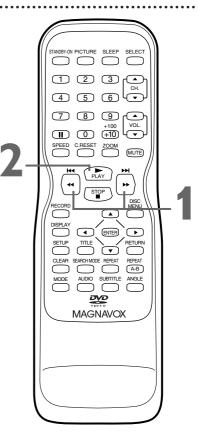
- Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.
 - During playback, press and hold ►► //►► or |◄</<< on the remote control to fast forward or fast reverse the picture.
 - For DVD playback, each time you press and hold the button, it will increase the speed by approximately 2, 8, 20, 50 or 100 times the normal speed. The speed may vary depending on the disc.
 - ▶ 1, ▶ 2, ▶ 3, ▶ 4 or ▶ 5 will appear briefly on the TV screen to indicate forward searching. Or, \blacktriangleleft 1, \blacktriangleleft 2, \blacktriangleleft 3, \blacktriangleleft 4 or \blacktriangleleft 5 will indicate reverse searching. For DVD playback, the sound will be mute during the search.
 - For Video CDs, Audio CDs or MP3 playback, the speed will increase by 2,8 or 30 times the normal speed. The speed may vary depending on the disc.
 ▶ 1, ▶ 2 or ▶ 3 will appear briefly on the TV screen to indicate forward searching. Or,
 ◄ 1, ◄ 2 or ◄ 3 will indicate reverse searching.

For MP3 or Audio CD playback, the sound will be intermittent during the search.



Example: Playing a DVD in reverse at twice the normal playing speed.

Press PLAY \blacktriangleright to return to normal playback.



Helpful Hint

 If you use >> I/>> or I<
 during Dual Playback, JPEG playback will be paused.

54 Title/Chapter Playback, Specific Time Playback

Title/Chapter Playback

- **Before you begin, press SELECT** to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.
 - **During DVD playback, press SEARCH MODE** until CH (for chapter) or TT (for title) appears on the TV. The number of available titles or chapters will appear at the right (/4, for example).

Enter the title or chapter number using the Number buttons. The title or chapter will play.

- To select a single-digit title/chapter number when there are more than 10 tracks, press ENTER to play the title/chapter.
- If you enter a title/chapter number that is not available on the disc, playback will not begin (or the current title/chapter will continue to play).



Specific Time Playback

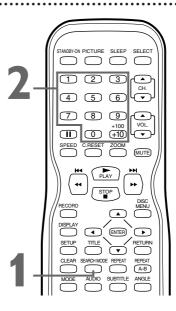
- Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.
- 1

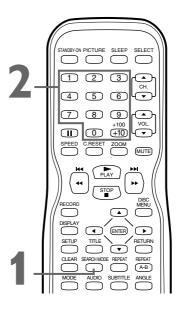
During DVD, Audio CD or Video CD (without PBC) play, press SEARCH MODE until the Time Search display appears.



Within 30 seconds, use the Number buttons to enter the elapsed playing time (of the track or title) at which you want play to begin. Enter the time in hours, minutes and seconds. Within a few seconds, playback will start at the specified time.
 Example: 1 hour, 23 minutes and 30 seconds 1 → 2 → 3 → 3 → 0

- Make sure the time you enter is within the total time of the current title or track. If it is not, the time space will clear and playback will continue at its current point. The total time available in the current track or title will appear in the Time Search display.
- If you make a mistake entering the time, press CLEAR to clear the time area. Enter the correct information.





- When playback is stopped, use the Number buttons to select a title for immediate playback. During playback, use the Number buttons to choose a
- chapter for immediate playback.
 Title/chapter playback is not available with some DVDs.

There are three ways to play a specific Audio CD, Video CD (without PBC), MP3 or JPEG track: Use the Number buttons, SEARCH MODE or I

 Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD. Make sure a valid disc is in the disc tray.



<u>Using the Number Buttons</u> Press the Number buttons to enter a track number.

Playback will start at the selected track.

For tracks 10 and above, press the +100/+10 button so the Search display (TR _ _ /12 - an example of total tracks) appears on the TV. Press the Number button of the first digit, then press the Number button of the second digit. For example, to playback track 26, press +100/+10, then Number 2, then Number 6. For single-digit tracks (1-9), press a single Number button. If you enter a track number that is not available on the disc, playback will not begin (or the current track will continue to play).



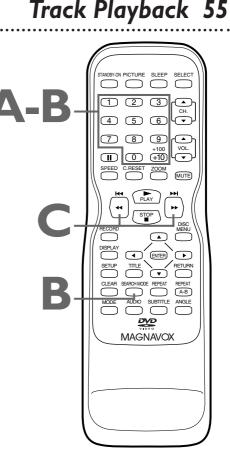
Using SEARCH MODE

Press SEARCH MODE so the Track Search Display (TR) appears. Within 30 seconds, press the Number buttons to select the track number. Playback will begin at the selected track. For a single-digit track (1-9), enter 0 first. For example, to play track 5, press 0, 5. You do not have to use the +100/+10 button in Search Mode for tracks 10 and above.



Using | <</ d>

During playback, press ►►I/►► to skip the current track and move to the next track. Press I<</p>



- Image: Image: A state of the st
- You cannot use ►►I/►► to go from the last track on the disc to the first track.

56 Paused and Step-by-Step Playback, Resume On

Paused and Step-by-Step Playback
Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.



During disc playback, press **II** .

Playback will pause and the sound will be mute.

 Pressing II once during Dual Playback will pause a JPEG file only. Pressing II one more time will pause an MP3 track.

Press II repeatedly to see a DVD or Video CD picture advance one frame (or step) at a time. The sound will remain mute.

Pressing **II** repeatedly during Audio CD, MP3 or JPEG playback will have no effect.

Press PLAY \blacktriangleright to resume playback.

Resume On

• Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.

Press STOP during playback. In a few seconds, the following Resume message will appear on the TV screen.

For DVD, AudioCD or VideoCD:

For MP3 or JPEG:





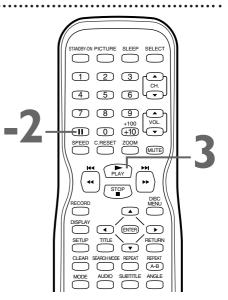


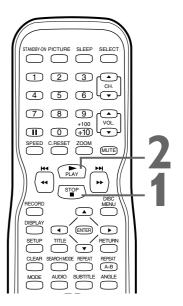
Press PLAY \triangleright . In a few seconds, playback will resume from the point at which it stopped last. You can resume playing at the same point even if you turn off the DVD/VCR, then turn it on again later. However, opening the disc tray will cancel the Resume feature. Playback will start at the beginning the next time you insert the disc.

For MP3 and JPEG, the playback will resume from the beginning of the current track.

To cancel Resume and start playing the disc from the beginning, press STOP \blacksquare again while playback is stopped. The Stop symbol (\blacksquare) will appear briefly on the TV screen. Press PLAY \blacktriangleright to start playing the disc from the beginning.

The resume information will be saved even when the power is turned off.





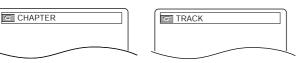
Helpful Hint

 Set STILL MODE to FIELD in the Display menu if paused images are blurry. Details are on pages 70-71.

Repeat, A-B Repeat 57

Repeat

- Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.
- During playback, press REPEAT until the repeat mode you want appears on the TV. On a DVD, select CHAPTER, TITLE or OFF. On an Audio CD and Video CD (without PBC), select TRACK, ALL (all tracks on the disc) or OFF. With MP3 or JPEG files, select TRACK, GROUP (all tracks in the current folder), ALL or OFF. Selecting a new track, chapter or title will cancel repeat playback.



Example: Repeat a DVD chapter

Example: Repeat an Audio CD or Video CD track

A-B Repeat

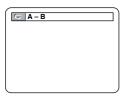
Follow these steps to play a section of a DVD, Audio CD or Video CD repeatedly.



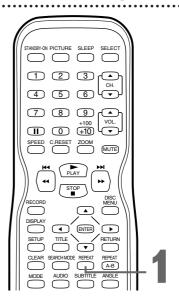
During disc playback, press REPEAT A-B to set the starting point (A). If you make a mistake, press CLEAR. This will erase point A and let you start over. G OFF will appear briefly on the TV screen.

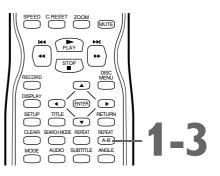


 Play the disc to the point at which you want repeated playback to end, then press REPEAT
 A-B again. Within a few seconds, the section will begin to play. The segment will play over and over until you cancel the A-B Repeat feature.



To cancel A-B Repeat Playback, press REPEAT A-B so G OFF appears on the TV screen. Regular playback will resume.





- Repeat and A-B Repeat are not available with some discs.
- A-B Repeat is not available with MP3 tracks.
- The entire A-B Repeat section must be within a single title or track. If you do not enter Point B before the end of the track or title is reached, the end of the track or title will become Point B automatically.
- Stopping playback will cancel A-B Repeat.
- If you choose GROUP Repeat during Dual Playback, all tracks or files in each folder will play repeatedly. For example if you choose GROUP Repeat during Dual Playback of MP3 folder A and JPEG folder B, all MP3 tracks in folder A and all JPEG files in folder B will be repeated.

58 Markers

Use Markers to remember your favorite places on a DVD, an Audio CD or a Video CD (without PBC). To set the Markers, follow these steps.

• Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.

Play the disc to within 30 seconds prior to the point at which you want to set the Marker. **During playback, press SEARCH MODE until the Markers appear** at the top of the TV screen.



Example: DVD

Within 30 seconds, press ◀ or ► to select a Marker (1-10). Make sure ____:__:__ appears beneath the number.

Let the disc playback to the point at which you want to set the Marker (up to 30 seconds away).

When the disc reaches the point you want to remember, press ENTER. The title or track number and its elapsed playing time will appear beneath the markers.

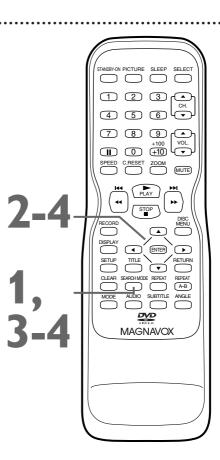
A checkmark will replace the Marker number. The Marker display will disappear in about 30 seconds, or press SEARCH MODE again to remove the Marker display.



Example: DVD

Example: Audio CD or Video CD

To return to a Marker during playback, press SEARCH MODE until you see the Markers. Press ◀ or ► to choose the Marker you want, then press ENTER. Disc playback will continue from the marked point.



- Opening the disc tray, switching to TV/VCR mode, or turning off the TV/VCR/DVD will erase all the Markers.
- To erase all the Markers, press SEARCH MODE until you see the Markers. Press ► to select AC (All Clear), then press ENTER. Press SEARCH MODE or RETURN to remove the display.

Subtitles, Camera Angles 59

Subtitles

You can select a language for DVD subtitles during playback. You may select only the subtitles that are available on the DVD.

 Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.

During playback, press SUBTITLE repeatedly to select a subtitle language. The number of available languages appears at the right of the subtitle display.

In the example below, six languages are available (/6). After a few seconds, the subtitles will appear. Or, press SUBTITLE repeatedly to turn off Subtitles. When no subtitles are available, "NOT AVAILABLE" appears at the right of the subtitle display.

Example: English as first of six available subtitles

Camera Angles

Some DVDs contain scenes recorded from different angles. The camera angle will not change if the DVD does not contain sequences recorded from different perspectives.

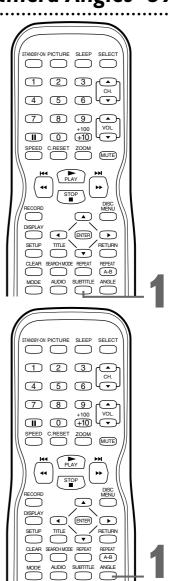
• Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.

1

During DVD playback, press ANGLE repeatedly to select a different angle. The number of available angles appears at the right of the Angle display. In this example, eight angles are available (/8).

1 / 8	

Example: Angle 1 of eight available angles



Helpful Hints

- With some DVDs, you must select a subtitle language in the disc menu.
- If the desired language does not appear after pressing SUBTITLE several times, the disc does not have subtitles in that language.
- Opening the disc tray will cancel your subtitle setting.
- If the ANGLE ICON setting is ON, [™] will appear on the TV screen when the current portion of the disc has multiple camera angles.

To set the ANGLE ICON ON or OFF, see pages 77-78.

60 Slow Motion, Zoom

Slow Motion

Press II during DVD or Video CD playback.

Press and hold ►►I/►► or I◀◀/◀◀ for a few seconds. Slow motion playback will begin. Press ►►I/►► or I◀◀/◀◀ repeatedly to play the DVD forward or backward at approximately 1/16, 1/8 or 1/2 the normal speed. Reverse slow motion is not available on a Video CD.

An l > 1 (1/16), l > 2 (1/8) or l > 3 (1/2) will appear briefly on the TV screen to indicate slow forward playback.

An ◄ 1 (1/16), ◄ 2 (1/8) or ◄ 3 (1/2) will indicate slow reverse playback.



Example: Playing a DVD forward at half the normal speed.

Press PLAY ► to return to normal playback.

Zoom

Zooming lets you enlarge the playback image of a DVDs, Video CDs or JPEG CDs, and lets you pan through the enlarged image.



Press ZOOM during playback. • ZOOM1 will appear on the screen. The picture will be 1.3 times larger. Press ZOOM again to increase the picture to twice the regular size. • ZOOM2 will appear. Press ZOOM again to increase the picture to 4 times the regular size. • ZOOM3 will appear.





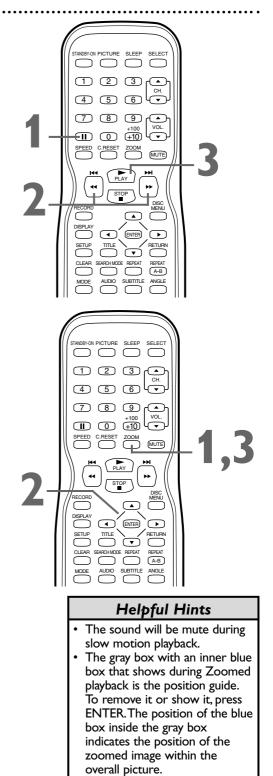
Press \blacktriangle , \bigtriangledown , \triangleleft , \triangleleft or \triangleright to move the zoomed image up, down, left or right.



Position guide example: The Zoomed area is in the top portion of the overall picture.

3

To return the picture to its normal size, press ZOOM repeatedly.



• The x4 zooming is not active with some discs. x1. 3 and x2 zooming is available for Video CDs. Only x2 zooming is available for JPEGs.

 Position guide is not available for JPEG playback.

Audio Language, Stereo Sound 61

Audio Language

You can select a language for DVDs during playback if multiple languages are available.

 Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.

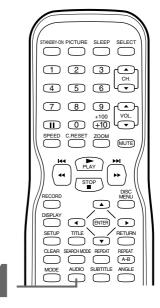
During DVD playback, press AUDIO repeatedly

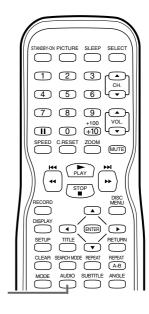
to choose one of the available languages. Audio display appears at the top of the TV screen, and the new audio will be heard. The display will disappear after about 5 seconds.

The Audio display may show the current settings for the Dolby Digital or multi-channel (5.1CH) sound, if they are available on the disc, and the sampling rate of the disc.The number of available languages appears after the " / " at the right of the display (/3, for example).

0))	1.ENG Dolby D 3/2.1ch 48k/3	

Example: English audio





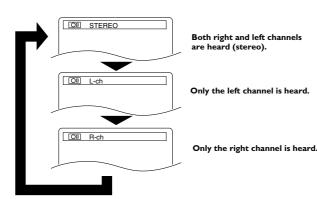
Helpful Hints

- If a language is not available after pressing AUDIO several times, the DVD does not have that language.
- Some DVDs only let you change the language in the disc menu.
- Audio languages may be abbreviated (such as ENG for English). Or, 3 dashes (- - -) may appear instead of an abbreviation.



Adjust Stereo Sound to determine whether you will hear the left channel, the right channel or both channels (stereo) during Audio CD or Video CD playback.

Press AUDIO repeatedly during Audio CD or Video CD playback to choose STEREO, L-ch or R-ch. The display will disappear in about 5 seconds.

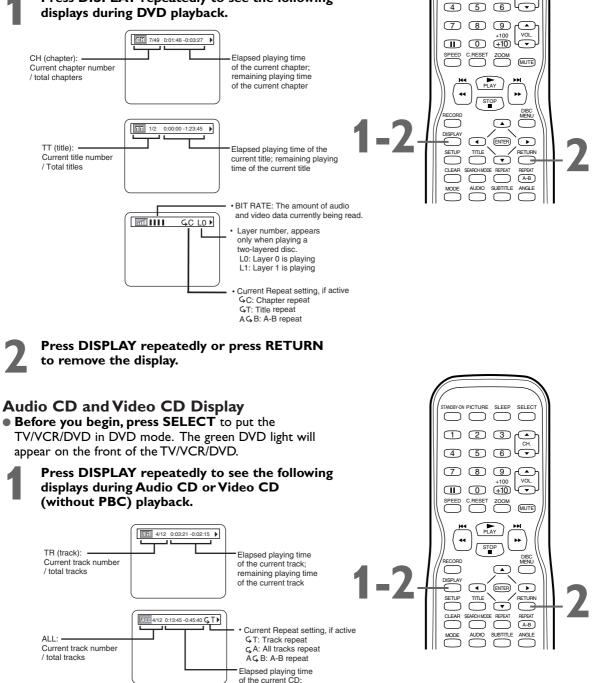


62 On-Screen Displays

DVD Display

 Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.

Press DISPLAY repeatedly to see the following displays during DVD playback.



remaining playing time of the current CD

TANDBY-ON PICTURE SLEEP

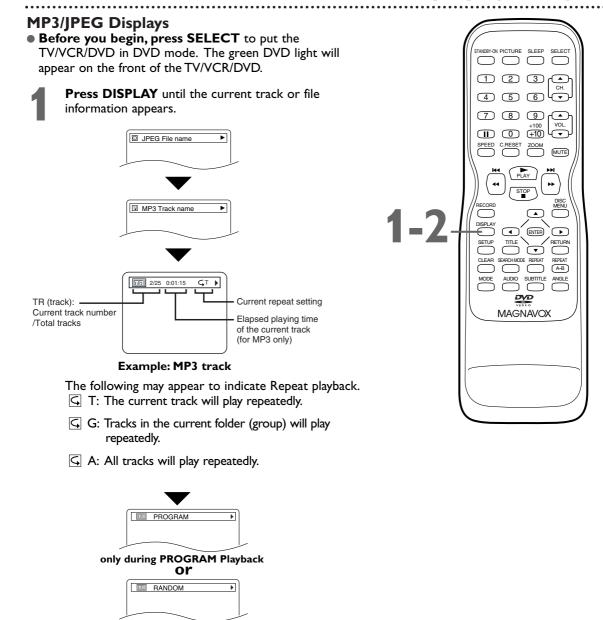
1230

SELECT

CH.

Press DISPLAY repeatedly or press RETURN to remove the display.

On-Screen Displays (cont'd) 63



only during RANDOM Playback Or

FOLDER PLAYBACK

only during FOLDER Playback

- Program and Random Playback is available only when DUAL PLAYBACK is OFF.
- Folder Playback is available only when DUAL PLAYBACK is ON.

Press DISPLAY again to remove the display.

Helpful Hint

 For MP3 files recorded in Variable Bit Rate (VBR), the elapsed time displayed on the screen may vary from the actual elapsed time.

64 Black Level, Virtual Surround, Initializing

Black Level

Adjust Black Level to brighten the DVD and Video CD picture during playback.



During DVD or Video CD playback, press MODE

so the Black Level icon shows on the TV screen.



Within 10 seconds, press ◀, ►, or ENTER

repeatedly to choose ON or OFF. ON brightens the dark parts of the picture. OFF shows the original picture as recorded.

Virtual Surround

You can enjoy improved stereo sound when you play DVDs, Audio CDs,Video CDs or MP3 files recorded in Dolby Digital or Pulse Code Modulation (PCM). Check the disc case for details on availability.



During disc playback, press MODE repeatedly until the Virtual Surround icon appears on the TV screen.



OFF

While the Virtual Surround icon appears, press ◀,▶ or ENTER to choose 1, 2 or OFF. The default setting is OFF. The icon will disappear after about 10 seconds.

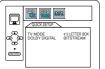
Initializing

You can return all the DVD player's Setup menu items (except for PARENTAL) to their default settings.

 Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the unit.



While playback is stopped, press SETUP twice. The QUICK SETUP screen appears.



Press \blacktriangleleft or \blacktriangleright to select INIT. (INITIALIZE) at the top of the menu, then press ENTER.



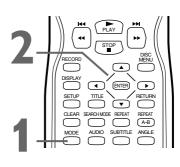


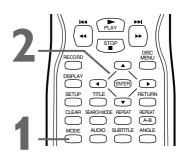
Press \blacktriangle or \blacktriangledown to select YES. Then, press ENTER twice. To cancel, select NO instead.

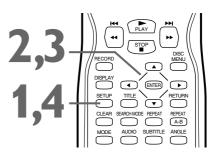




Press SETUP to remove the menu.







- For Audio CDs and Video CDs, you can adjust Virtual Surround only if you set Stereo Sound to STEREO. Details are on page 64.
- The Black Level and Virtual Surround settings will be saved even if the player is turned off.

Random Playback, Program Playback 65

Random Playback

You may play Audio CD, JPEG or MP3 tracks in Random order instead of the order in which they are recorded (1,2,3...).

 Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.

While playback is stopped, **press MODE until the RANDOM screen appears.**

	CD-DA	TOTAL 1:03:30	η
		M PROGRAM indication	
PLAY			

Example: Audio CD

While the RANDOM screen appears, press PLAY ►. The tracks will play in random order. After all the tracks have played once, playback will stop.

Program Playback

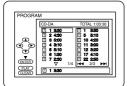
You may determine the order in which Audio CD, MP3 or JPEG tracks will play. To set a program, follow these steps.

 Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.

While playback is stopped, press MODE until the PROGRAM screen appears.

2

Press \blacktriangle or \triangledown to select a track you want to play, then press ENTER.



Example: Audio CD

Press CLEAR to erase the last track in the program if you make an error.

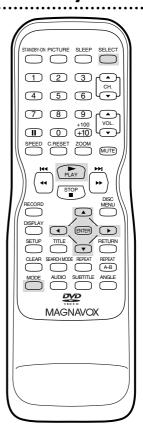
Additional tracks may be on other screens. press \vee to go on to the next page, and press \blacktriangle to go back to the previous page.

Repeat this step until you have selected all the tracks you wish to play in the program.

To see tracks in a program when there are more than eight tracks, use $| \blacktriangleleft \triangleleft / \blacktriangleleft \triangleleft$ and $| \triangleright \mid / \triangleright \triangleright$ to see all the tracks.

For MP3 or JPEG folders, press \blacktriangleleft or \triangleright to go to the previous or next level of folders. Press TITLE to return to the first item in the highest level.

Press PLAY ►. The tracks will play once in the order you set. Turning off the TV/VCR/DVD or opening the disc tray will erase the program. You can start program playback only while in the PROGRAM screen.



- You cannot use the Number buttons or SEARCH MODE to select another track while playing a program. Press I◄◄/◄◄ or
 ►I/►► to select other tracks in the program.
- You cannot combine random playback with programmed playback.
- You may play a program or a track within a program repeatedly. During programmed playback, press REPEAT so ALL (all tracks in the program) or TRACK appears. The entire program or the current track will play over and over.
- You cannot alter a program during playback.
- You can start program playback only while in the PROGRAM screen.
- A program can have a maximum of 99 tracks.
- To erase all tracks in the program, select ALL CLEAR at step 2.
- Program/Random playback of MP3 or JPEG tracks is not available while Dual Playback is ON.

66 MP3/JPEG Playback

The DVD player will play MP3 and JPEG files that you record and finalize on a CD-RW (Compact Disc-Rewritable) or CD-R (Compact Disc-Recordable).

These discs may contain pictures in a JPEG format or audio tracks in an MP3 format. For example, you may have photographic film developed by a retailer that places the pictures on a CD-R for you. These pictures may be in JPEG format.

Or, you may copy or download MP3 music files from certain legal Internet sites, then copy those files onto a CD-R or CD-RW.

You cannot make or record such discs using the TV/VCR/DVD. See your computer manual for details on recording.

Keep these characteristics in mind when making discs you intend to play on the DVD player of the TV/VCR/DVD.

- Record MP3 tracks at a sampling frequency of 44.1 kHz or 48 kHz. Record in a constant bit rate between 32 kbps and 320 kbps.
- When recording JPEG files, the size of the picture should be between 32 x 32 and 6300 x 5100 dots.
- **Before you begin, press SELECT** to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.
 - When you put a CD-RW or CD-R with MP3 or JPEG files in the TV/VCR/DVD, a file list will appear on the TV screen when you press DISC MENU (If you use PLAY \blacktriangleright to close the disc tray, playback may start automatically). **Press** \blacktriangle or \checkmark to select a folder, **MP3 track or JPEG file.**

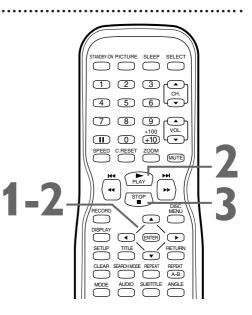
If you choose a track or file, press PLAY ► or ENTER. Starting with the track or file you selected, the tracks/files will play in the order they were recorded, i.e. 1, 2, 3.

If you select a folder and press ENTER, the tracks or files within that folder will appear. Press \blacktriangle or \triangledown to select the track or file you want, then press PLAY \blacktriangleright or ENTER.

- Press TITLE to return to the first item in the highest level of folders or files.
- To change the TRANSITION MODE of JPEG playback, press MODE during playback. Then press

 </li
- To change the size of the playback image, press MODE repeatedly until SIZE CHANGE MODE appears on top of the TV screen during playback. Then press ◀,▶ or ENTER to switch between NORMAL(100%) and SMALL(95%).
- Press MODE repeatedly to remove the display.

To stop play, press STOP ■.



- JPEG images and MP3 tracks are known as files. Groups of files are called folders.
- Folders have the 🖾 icon.
- MP3 tracks have the 🗿 icon.
- JPEG files have the 🖾 icon.
- A maximum of 255 folders can be recognized. A maximum of 999 files can be recognized.
- During playback, press the Number buttons to select another track. Or, press
 I ◄ / ◄ or ► I/► to change tracks. If a track is not available, "X" may appear on the TV screen, and playback may resume at an incorrect track or may continue with its current track.
- Specific Time playback is not possible with MP3 tracks.
- Progressive JPEGs (JPEG files saved in the progressive format) will not play on this DVD player.
- High resolution JPEG files takes longer to be displayed.
- SIZE CHANGE MODE may have no effect on some files (e.g. files with a small picture size).

MP3/JPEG Playback (cont'd) 67

Dual Playback

This feature lets you play MP3 and JPEG files simultaneously. Available only when DUAL PLAYBACK is ON. See pages 77-78 on how to set the DUAL PLAYBACK ON or OFF.



Press SELECT to put the DVD/VCR in DVD mode.

DVD light will appear on the front of the DVD/VCR.



Press DISC MENU during MP3/JPEG playback. A file list will appear.

Press \blacktriangle or \blacktriangledown to select a desired JPEG file/an MP3 track from the List and press PLAY \triangleright or ENTER.



To stop playback, press STOP ■.

Folder Playback

You may select to play a folder. Available only when DUAL PLAYBACK is ON. See pages 77-78 on how to set the DUAL PLAYBACK ON or OFF.

Press SELECT to put the DVD/VCR in DVD mode.

DVD light will appear on the front of the DVD/VCR.

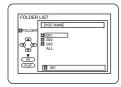


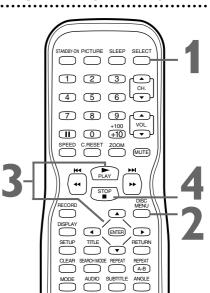
While playback is stopped, press MODE. A folder list will appear.

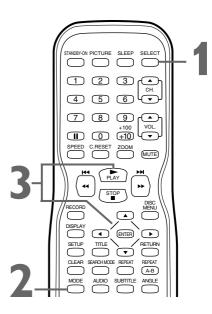


Press \blacktriangle or \blacktriangledown to select a folder, then press PLAY \blacktriangleright or ENTER.

 MP3 tracks and JPEG files in the selected folder will play simultaneously.







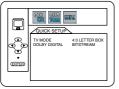
- If you press PLAY b directly after you inserted a disc which contains both MP3 tracks and JPEG files and if the DUAL PLAYBACK setting is ON, Dual Playback will start automatically.
- Zooming or rotating a JPEG file during Dual Playback may cause an intermittent sound.
- Dual Playback may not function properly if MP3 and JPEG files on the disc interfere each other due to the difference in their data size.

68 Language Settings

You can use the LANGUAGE settings to select different languages for the Audio or Subtitles of DVDs, as well as languages for DVD disc menus.

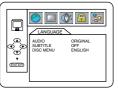
- Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.
 - Press SETUP once so the TV/VCR SETUP menu appears.
 - ► TIMER PROGRAMMING SETTING CLOCK USER'S SET UP LANGUAGE [ENGLISH] ZERO RETURN





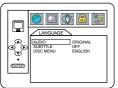


Press \blacktriangleleft or \triangleright to select CUSTOM at the top of the menu, then press ENTER.





(LANGUAGE) will be selected. Press ENTER.

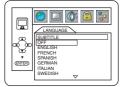




Press ▲ or ▼ to select AUDIO, SUBTITLE or DISC MENU.Then, press ENTER. The language options for the selected item will appear.

0,0 9,0 10,0 10,0 10,0 10,0 10,0 10,0 10	AUDIO ORIGINAL ENGLISH FRENCH SPANISH GERMAN ITALIAN SWEDISH

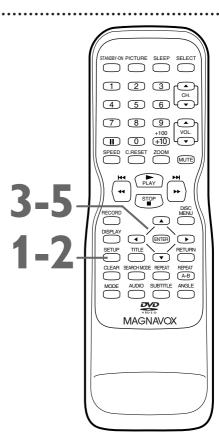
AUDIO: The DVD's audio plays in the selected language.



SUBTITLE: Subtitles appear in the selected language.

LANGUAGE
ENGLISH FRENCH SPANISH GERMAN TTALIAN SWEDISH DUTCH

DISC MENU: A DVD's disc menu appears in the selected language.



- If the DVD's default settings for Audio and Subtitle are the same language, the subtitles may not show unless you turn them on.
- Use AUDIO and SUBTITLE to select Audio and Subtitles available on the DVD. Details are on pages 59 and 61.
- If you set AUDIO to ORIGINAL, the default setting of the DVD Audio will play.

Language Settings (cont'd) 69



Press \blacktriangle or \blacksquare to select a language, then press

ENTER. The language lists may continue on multiple screens. Press ▲ or ▼ to move to the other screens.
If you select OTHER, press four Number buttons to enter the code for the language you desire. Use the Language Codes below. The language or language code you select will appear in the Language menu beside AUDIO, SUBTITLE or DISC MENU.

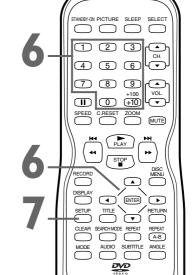
	🥥 🗔 🚫
	LANGUAGE
	LANGUAGE CODE
	Please enter a 4-digit language code.
ENTER	
C	

• You can select other languages for AUDIO, SUBTITLE and DISC MENU only if the language is available on the disc. If the language is not recorded on the DVD, changing these settings will have no effect.



Press SETUP to exit the menu.

Language Codes



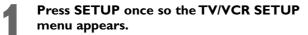
MAGNAVOX

A-B		English	5160	Kannada	5760	Panjabi	6247	т	
Abkhazian	4748	Esperanto	5161	Kashmiri	5765	Pashto	6265	Tagalog	6658
Afar	4747	Estonian	5166	Kazakh	5757	Persian	5247	Tajik	6653
Afrikaans	4752	F-H		Kinyarwanda	6469	Polish	6258	Tamil	6647
Albanian	6563	Faroese	5261	Kirghiz	5771	Portuguese	6266	Tatar	6666
Amharic	4759	Fiji	5256	Kirundi	6460	Pushto	6265	Telugu	6651
Arabic	4764	Finnish	5255	Korean	5761	Quechua	6367	Thai	6654
Armenian	5471	French	5264	Kurdish	5767	Rhaeto-Romanc	e 6459	Tibetan	4861
Assamese	4765	Frisian	5271	L-N		Romanian	6461	Tigrinya	6655
Aymara	4771	Gaelic (Scots)	5350	Laothian	5861	Russian	6467	Tonga	6661
Azerbaijani	4772	Galician	5358	Latin	5847			Tsonga	6665
Bangla	4860	Georgian	5747	Latvian	5868	S		Turkish	6664
Bashkir	4847	German	5051	Lettish	5868	Samoan	6559	Turkmen	6657
Basque	5167	Greek	5158	Lingala	5860	Sangho	6553	Twi	6669
Bengali	4860	Greenlandic	5758	Lithuanian	5866	Sanskrit	6547	U-Z	
Bhutani	5072	Guarani	5360	Macedonian	5957	Serbian	6564	Ukrainian	6757
Bihari	4854	Gujarati	5367	Malagasy	5953	Serbo-Croatian	6554	Urdu	6764
Bislama	4855	Hausa	5447	Malay	5965	Sesotho	6566	Uzbek	6772
Breton	4864	Hebrew	5569	Malayalam	5958	Setswana	6660	Vietnamese	6855
Bulgarian	4853	Hindi	5455	Maltese	5966	Shona	6560	Volapuk	6861
Burmese	5971	Hungarian	5467	Maori	5955	Sindhi	6550	Welsh	4971
Byelorussian	4851	I-K		Marathi	5964	Singhalese	6555	Wolof	6961
C-E		Icelandic	5565	Moldavian	5961	Siswat	6565	Xhosa	7054
Cambodian	5759	Indonesian	5560	Mongolian	5960	Slovak	6557	Yiddish	5655
Catalan	4947	Interlingua	5547	Nauru	6047	Slovenian	6558	Yoruba	7161
Chinese	7254	Interlingue	5551	Nepali	6051	Somali	6561	Zulu	7267
Corsican	4961	Inupiak	5557	Norwegian	6061	Spanish	5165		
Croatian	5464	Irish	5347	O-R		Sundanese	6567		
Czech	4965	Italian	5566	Occitan	6149	Swahili	6569		
Danish	5047	Japanese	5647	Oriya	6164	Swedish	6568		
Dutch	6058	Javanese	5669	Oromo (Afan)	6159				

70 Display Settings

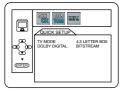
You can change the TV Aspect ratio and Still Mode clarity in the Display menu.

• Before you begin, press SELECT to put the TV/VCR/DVD in DVD mode. The green DVD light will appear on the front of the TV/VCR/DVD.



- TV/VCR SETUP -TIMER PROGRAMMING SETTING CLOCK USER'S SET UP LANGUAGE [ENGLISH] ZERO RETURN

When playback is stopped, press SETUP again. The QUICK SETUP screen will appear.



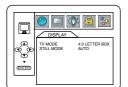
3

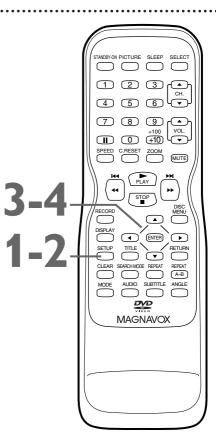
Press \blacktriangleleft or \blacktriangleright to select CUSTOM at the top of the menu, then press ENTER.





Press \blacktriangleleft or \triangleright to select \square (DISPLAY), then press ENTER.





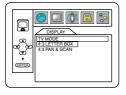
- Selecting a different TV MODE setting is only effective if it is available on the DVD. Check the DVD disc menu or case for details.
- You also can adjust TV MODE in the QUICK SETUP menu. With QUICK selected, press ENTER. TV MODE will be selected, so press ENTER. Press ▲ or ▼ to choose a setting, then press ENTER. Press SETUP to remove the menu.

Display Settings (cont'd) 71

Press ▲ or ▼ to select an item, then press
ENTER.
If you selected TV MODE, press ▲ or ▼ to

select a setting, then press ENTER. Choose 4:3 LETTER BOX if you want to see the entire, widened picture with black bars at the top

and bottom of the screen. This looks like the picture you see when watching movies in a theater. This setting is possible only if the DVD was recorded in the letterbox or widescreen format. Choose 4:3 PAN & SCAN for a full height picture, with both sides trimmed. Some companies refer to this as reformatting the picture to fit your TV screen and may call it the regular or normal format.



TV MODE

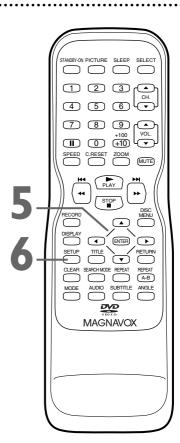
If you selected STILL MODE, press ▲ or ▼ to select a setting, then press ENTER.
 This function allows you to adjust the quality of a still image. AUTO is the default setting.
 If you select FIELD, still images will be stabilized but

coarse due to the limited amount of data. If you select FRAME, the picture quality will be improved due to the simultaneous output of two field data but the image can be unstabilized.

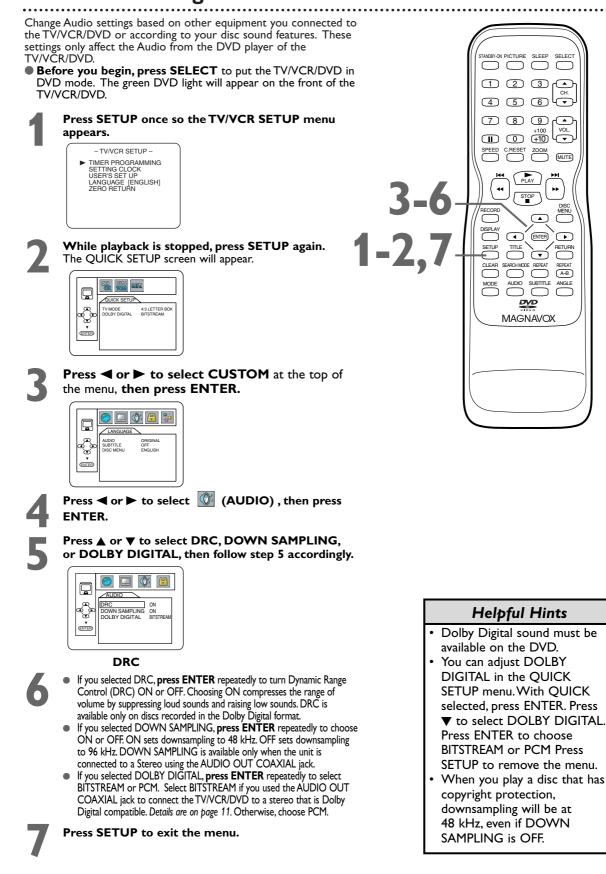
STILL MODE

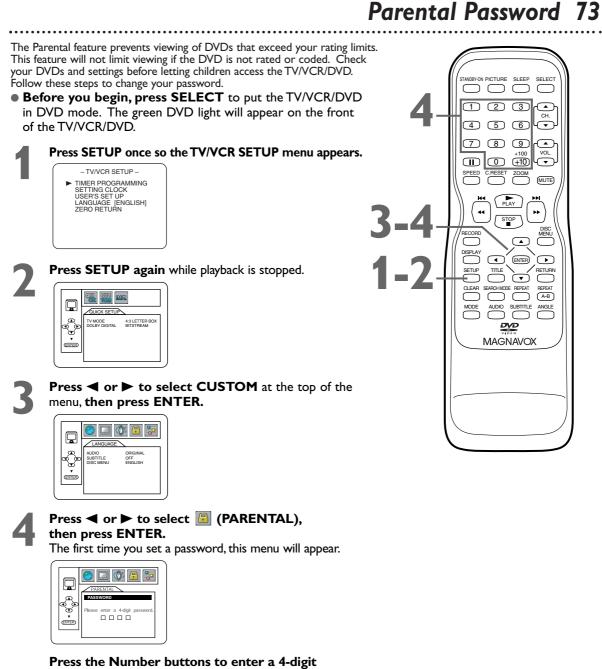


Press SETUP to exit the menus.



72 Audio Settings

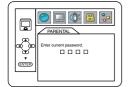




password. The password will appear on the screen. Write it down so you don't forget it.

Press ENTER, and proceed to step 6 on the next page.

If you have set a password before, this menu will appear.



Press the Number buttons to enter your current 4digit password. Asterisks (*) will appear instead of your password. This protects its identity.

Instructions continue on the next page.

74 Parental Password (cont'd)

Instructions continued from the previous page.

5

Press ▼ to select PASSWORD CHANGE, then press ENTER.

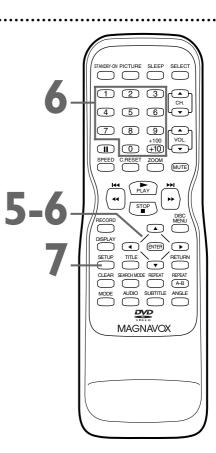
EL ALL ANGE	
	EL ALL ANGE



Press the Number buttons to enter a 4-digit password. The password numbers will appear on the screen. Write down the password so you will not forget it. **Press ENTER.** The previous menu will reappear.

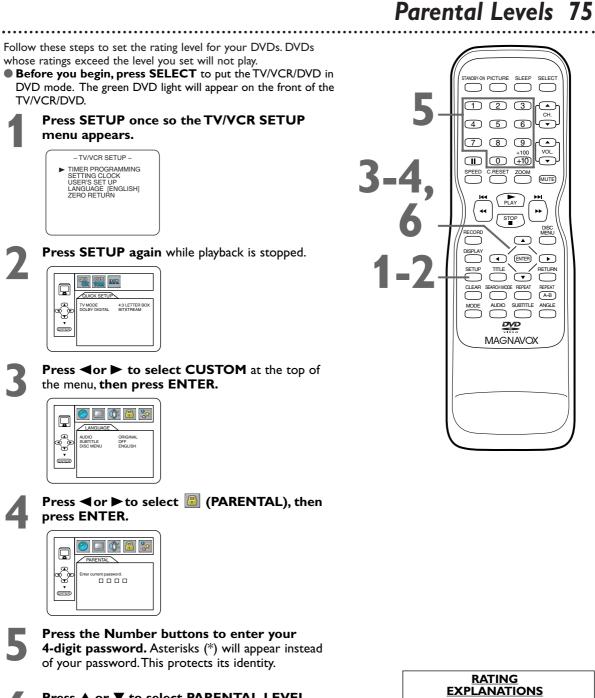


Press SETUP to exit the menu.

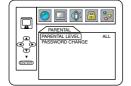


Helpful Hints

- The default password is 4737. If you forget your password, press Number buttons 4, 7, 3, 7 at step 3. You will be prompted to enter a new 4-digit password. Use the Number buttons to enter a new 4-digit password, then press ENTER. PARENTAL LEVEL will reset to ALL. Press SETUP to remove the menu. See pages 75-76 to reset PARENTAL LEVEL as you desire.
- A power failure will not erase your password.



Press \blacktriangle or \triangledown to select PARENTAL LEVEL, then press ENTER.



Instructions continue on the next page.

- ALL The Parental feature is
- inactive; all discs can play.
- 8 Adult material
- 7 NC-17 Not appropriate for children under 17
- 6 R Restricted; parental approval required for viewers under 18.
- 4 PG13 Unsuitable for children under 13
- 3 PG Parental Guidance suggested.
- 1- G General Audience; recommended for all ages.

76 Parental Levels (cont'd)

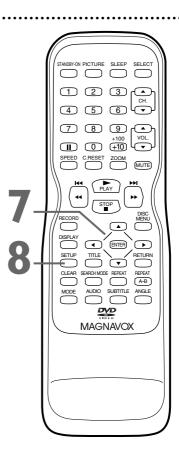
Instructions continued from the previous page.

Press \blacktriangle or \lor to select a level, then press ENTER. The rating levels continue on two menu screens. Press \bigstar or \lor repeatedly to move to the next or previous screen to find the rating level you want. After making your selection, the previous menu will appear. The level you selected will appear beside PARENTAL LEVEL.

	📀 🔲 🚫 📄 🛜
	PARENTAL
æ	PARENTAL LEVEL
e e	8 7 [NC-17]
(ENTER)	6 [R]
ENTER	4 [PG13] 3 [PG]

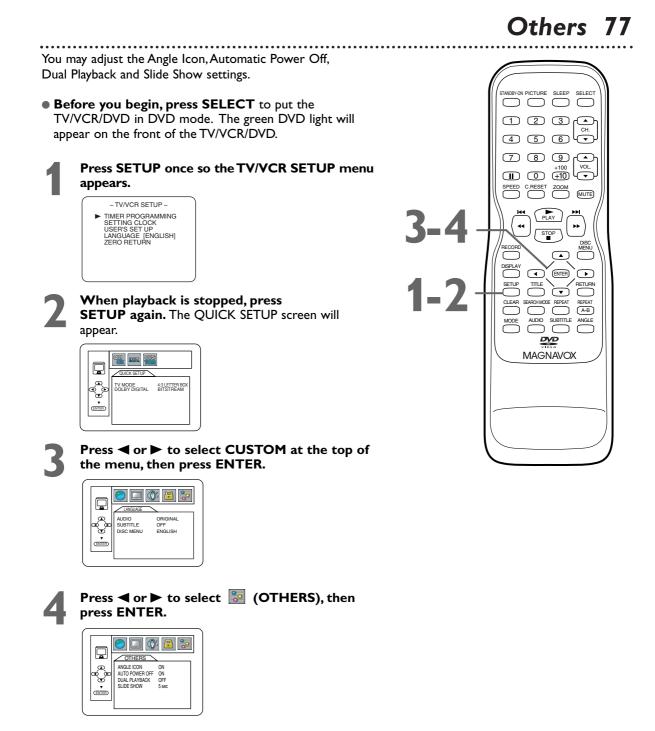


Press SETUP to exit the menu.



Helpful Hints

- When you try to play a DVD whose rating exceeds the level you set, an on-screen message will indicate the DVD cannot play. Remove the DVD, then set PARENTAL LEVEL to ALL. Reload the DVD and begin playback. Some DVDs may let you enter your 4-digit password to begin playback. Follow the on-screen messages as prompted.
- You cannot use the default password (4737) to play a DVD.

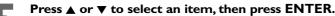


Instructions continue on the next page.

78 Others (cont'd)

Instructions continued from the previous page.

59. Choose OFF to disable the Angle icon.

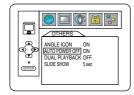


 If you selected ANGLE ICON, press ENTER repeatedly to select ON or OFF. The default setting is ON. Choose ON to see the Angle icon when multiple camera angles are available during DVD playback. Details are on page

COTHERS COT

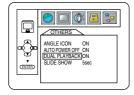
ANGLE ICON

• If you selected AUTO POWER OFF, press ENTER repeatedly to choose ON or OFF. The default setting is ON. Choose ON if you want the player to turn off when there is no activity at the player or its remote for 20 minutes.



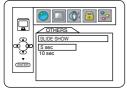
AUTO POWER OFF

• If you selected DUAL PLAYBACK, press ENTER to choose ON or OFF. This feature lets you play MP3 and JPEG files simultaneously.



DUAL PLAYBACK

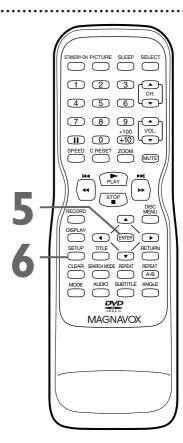
 If you selected SLIDE SHOW, press ▲ or ▼ to choose 5sec or 10sec, then press ENTER. This adjusts the playback speed of the SLIDE SHOW. The default setting is 5 sec. Choose 5 sec to display each image for 5 seconds. Choose 10 sec to display each image for 10 seconds.



SLIDE SHOW



Press SETUP to remove the menus.



<u>AUDIO In Jacks:</u> red and white jacks on the front of the TV/VCR/DVD which are used to receive or record audio from another source (VCR, Camcorder, etc.).

<u>Automatic Channel Setup</u>: process in which the TV/VCR/DVD memorizes all available TV channels. Then, when you push CH. \blacktriangle/∇ , you only scan through channels you receive.

Auxiliary (AUX): The channel to which you set your TV/VCR/DVD during dubbing or when viewing material that is playing on another device that is connected to the TV/VCR/DVD (for example, a Camcorder or VCR or TV channels from a Cable Box/Satellite Receiver). Press SELECT to choose AUX at the TV/VCR/DVD.

Bands: settings that allow you to tune channels.

- **Antenna** VHF (very high frequency; channels 2-13) and UHF (ultra high frequency; channels 14-69).
- Cable standard channels can be received without a Cable Box.

Brightness: adjusting increases or decreases the brightness of the color on the screen.

<u>COAXIAL Digital Audio Out jack:</u> Sends digital audio to a stereo, allowing you to adjust the volume at the stereo.

Color: adjusting pales or brightens the TV/VCR/DVD picture color.

Dolby Digital: A surround sound system that provides 5.1 channel sound as used in movie theaters. Sound is heard through multiple channels, not just the right and left as with standard stereo.

Dubbing: copying a videotape from a separate VCR or camcorder.

HQ: high quality; a feature in the VCR circuitry which provides enhanced videotape picture detail through the TV/VCR/DVD.

OTR: One-Touch Recording; a timed recording that starts immediately and records for 30 minutes to 8 hours, whichever you specify.

Sharpness: adjusting softens or clarifies the picture on the screen.

Tape Speeds: how fast the videotape travels during playback or recording. The faster the tape speed, the better the recording quality will be. Faster speeds (SP) also use more space on the tape. So, you can put more recording on a tape if you use a slower tape speed (SLP).

- **SP** (standard playback) fastest tape speed (recording time for a T120 tape is approximately 2 hours); best picture quality.
- LP (long playback) average tape speed; only playback in this speed is available on this TV/VCR/DVD.
- **SLP** (super long playback) slowest tape speed (recording time for a T120 tape is approximately 6 hours).

<u>Tint</u>: adjusting changes the tints of the picture from purple to green. <u>VIDEO IN Jack</u>: yellow jack on the front of the TV/VCR/DVD which is used to receive or record video from another source (VCR, Camcorder, etc.).

80 Helpful Hints

If you are having problems with your product, check this list of problems and possible solutions before requesting service. You may be able to solve the problem yourself.

Location

For safe operation and satisfactory performance of your TV/VCR/DVD, remember the following:

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation. Do not block the ventilation openings at the top and bottom of the TV/VCR/DVD. Do not place the TV/VCR/DVD on a carpet, as this will block the ventilation openings.
- Avoid locations subject to strong vibrations.
- Do not place the TV/VCR/DVD near strong magnetic fields.
- Do not move the TV/VCR/DVD from a cold place to a hot place, or vice versa.

Electrical Shock and Fire Hazards

- Do not handle the power cord with wet hands.
- Do not pull the power cord when disconnecting the TV/VCR/DVD from the AC (alternating current) wall outlet. Grasp it by the plug.
- If you spill water on the TV/VCR/DVD, unplug the power cord immediately and take the TV/VCR/DVD to an authorized service center.
- Do not put your fingers or objects into the cassette compartment or disc tray.
- Do not place anything on top of the TV/VCR/DVD.

Dew Warning (Moisture Condensation)

 Moisture may condense inside the unit when you move it from a cold place to a warm place, after heating a cold room, or when the humidity is high. There is no warning that moisture is in your TV/VCR/DVD. Playing a tape when moisture has accumulated could damage the tape and the TV/VCR/DVD. If you suspect moisture inside the TV/VCR/DVD, keep the power on (but do not play a tape) for at least 2 hours. This will allow the TV/VCR/DVD to dry.

TV/VCR/DVD will not perform a timer recording.

- Set the recording start and stop times correctly. Details are on pages 29-32.
- Midnight is 12 a.m. Noon is 12 p.m.
- Make sure the TV/VCR/DVD power is off for the timer recording.
- Set the clock. Details are on pages 21-24.
- Put a videotape in the cassette compartment of the TV/VCR/DVD. The tape must have a record tab. Details are on page 8.
- If the power fails, timer recordings will be restored when you reset the clock. Timer recordings do not
 occur if set to take place during the power failure.

TV/VCR/DVD will not record on a videotape.

- Make sure the videotape has a record tab. Details are on page 8.
- Plug the power cord into an active AC outlet. Details are on page 10.
- Check your hookups. Details are on pages 9-10.
- Set up the TV channels. Details are on page 19.
- You cannot record DVDs onto a videotape using the TV/VCR/DVD.

Channel reception is poor.

• Check connections, then set up the channels again. Details are on page 19.

TV/VCR/DVD has no power.

• Connect the power plug to an AC (alternating current) outlet completely.

TV/VCR/DVD ejects the tape when you try to start a recording.

• Make sure the tape has a record tab. Details are on page 8.

Helpful Hints (cont'd) 81

Disc cannot play.

- Insert a playable disc. Make sure the disc is labelled for Region 1 or ALL regions and is NTSC compatible. Details are on page 7.
- Place the disc correctly in the disc tray. If the disc is one-sided, place the disc in the tray with the label facing up. If the disc is two-sided, make sure the label of the side you want to play is facing up.
- Clean the disc. Make sure the disc is not scratched or warped.
- Cancel the Parental Controls, enter the password, or change the Parental level. Details are on pages 75-76.

TV/VCR/DVD does not have a picture.

- Adjust the antenna or check the Cable TV or satellite signal connection. If using a Cable Box/Satellite Receiver, set the TV/VCR/DVD to channel 3, 4 or AUX. *Details are on pages 9-10*.
- Adjust the picture controls. Details are on page 26.
- Select an active TV channel. Details are on pages 19-20.
- Make sure the disc is compatible with the DVD player of the TV/VCR/DVD. Details are on page 7.

TV/VCR/DVD has poor sound or no sound.

- Press VOL. \blacktriangle/ ∇ to adjust the volume. Press MUTE to restore the volume.
- Check the audio settings for DVD mode. Details are on page 72.
- Check the audio settings of the disc. For example, you may have selected "soundtrack" playback or an unavailable sound setting (such as Dolby Digital) or language. *Details are on pages 61, 68-69 and 72*. Try other sound options provided in the DVD disc menu.

You cannot choose a DVD feature, such as camera angle or audio or subtitle language.

• The feature must be recorded on the DVD. Not all DVDs contain multiple angles, subtitles, etc. Refer to the disc case to see what features are available. If the feature is not available, the "X" may appear in the top right corner of the screen.

Videotape playback is poor or the tape is destroyed.

- Adjust the tracking. Details are on page 41.
- Use the Rental feature. Details are on page 36.
- If moisture has accumulated in the unit, keep the power on for at least 2 hours, but do not play a tape.

TV/VCR/DVD does not display closed captions for TV programs.

Make sure closed captioning is available for the program. Refer to the TV listings in your local newspaper.

Remote control does not operate the TV/VCR/DVD.

- Aim the remote control directly at the remote sensor on the front of the TV/VCR/DVD. Details are on page 17.
- Remove all obstacles between the remote control and the TV/VCR/DVD.
- Inspect and replace the batteries in the remote control. Details are on page 8.

Number buttons will not select channels above 69.

- Enter channel numbers as a 2-digit number. If you want to select channels 100 and above, press the +100/+10 button, then the Number buttons for the last 2 digits. *Details are on page 15*.
- If you are using an antenna and do not have Cable TV/Satellite, only channels 2-69 will be available.

You cannot insert a tape into the cassette compartment of the TV/VCR/DVD.

- Insert the tape with the window facing up and the record tab facing you and on the left.
- Make sure a tape isn't already inside by pressing STOP/EJECT ■/▲ on the front of the TV/VCR/DVD.
- Gently push on the center of the tape. Never force a tape into the TV/VCR/DVD.
- If you have set a timer recording and the power is off, the unit will eject the tape if the record tab is missing.

You cannot remove the tape from the TV/VCR/DVD.

- Make sure the power plug is completely connected to an AC (alternating current) outlet.
- If a timer recording is programmed, turn on the TV/VCR/DVD power, then eject the tape. Be sure to insert a tape and turn off the TV/VCR/DVD power for the timer recording.
- Unplug the TV/VCR/DVD power cord for 5 minutes. Then, plug in the power cord again, then press STANDBY-ON on the TV/VCR/DVD. If the tape does not eject, press STOP/EJECT ■/▲ on the TV/VCR/DVD three to five times. If the tape still does not eject, an authorized servicer may need to remove the tape.

82 Specifications

General TV/VCR

27MDTR20 CRT:

20MC4304 CRT:

19MDTR20 CRT:

15.119/FCC

Closed Caption system: Video Heads: Rotary four-head Tape width: 1/2 inch Tape speeds SP 33.40 mm/sec. LP 16.67 mm/sec. SLP 11.12 mm/sec. Tuner channels: 2-69 Cable TV: 1-125

NTSC

General DVD

Color System:

27 inch in-line gun 110° deflection tube

20 inch in-line gun 90° deflection tube

19 inch in-line gun 90° deflection tube

Electrical Specifications

Sound output:

Other Specifications

Terminals Antenna In: Video In: Audio L/R In: Headphone: Coaxial Digital Audio Out:

Operating temperature:

Power requirements:

27MDTR20:

Power consumption 120W (Maximum): Height: 25.5" (648 mm) Dimensions: Width: 26.6" (675 mm) Depth: 19.7" (500 mm) 86 lbs. (39 kg)

90W

20MC4304:

Weight:

Power consumption (Maximum): Dimensions:

90W Height: 20.2" (513 mm) Width: 22.1" (562 mm) Depth: 20.2" (513 mm) 50.7 lbs. (23 kg)

Height: 19.7" (500 mm) Width: 23.8" (605 mm) Depth: 18.7" (474 mm)

48.5 lbs. (22 kg)

Two speakers, 1W, 8 ohm

75 ohm unbalanced (F-type)

VHF/UHF/Cable TV

One RCA connector

Two RCA connectors

1/8" stereo (3.5 mm)

500m Vpp (75 ohm)

41°F-104°F (5°C-40°C)

One pin jack,

AC 120V, 60Hz

19MDTR20:

Weight:

Power consumption (Maximum): Dimensions:

Weight:

Accessories:

Remote Control with two AA batteries **Owner's Manual** Quick-Use Guide

Designs and specifications are subject to change without notice and without our legal obligation.

Limited Warranty 83

MAGNAVOX LIMITED WARRANTY

Ninety (90) Days Labor & One (1) Year Parts & One (1) Year Display

MAGNAVOX warrants this product against defect in material or workmanship, subject to any conditions set forth as follows:

PROOF OF PURCHASE:

You must have proof of the date of purchase to receive warranted repair on the product. A sales receipt or other document showing the product and the date that you purchased the product as well as the authorized retailer included, is considered such proof.

COVERAGE:

(If this product is determined to be defective)

LABOR: For a period of ninety (90) days from the date of purchase, Magnavox will repair or replace the product, at its option, at no charge, or pay the labor charges to any Magnavox authorized service center. After the period of ninety (90) days, Magnavox will no longer be responsible for charges incurred.

PARTS: For a period of one (1) year, Magnavox will supply, at no charge, new or rebuilt replacement parts in exchange for defective parts. Magnavox authorized service centers will provide removal and installation of the parts under the specified labor warranty.

DISPLAY: For a period of one (1) year from the date of purchase, Magnavox will supply, at no charge, a new or rebuilt active display device in exchange for the defective display. Magnavox authorized service centers will provide removal and installation of the parts under the specified labor warranty. (PTV screens carry a thirty (30) day replacement warranty.)

EXCLUDED FROM WARRANTY COVERAGE

Your warranty does not cover:

- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of improper installation, connections to improper voltage supply, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Magnavox.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- Damage occurring to product during shipping when improperly packaged or cost of associated packaging.
- Product lost in shipment and no signature verification of receipt can be provided.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Products sold AS IS or RENEWED.

TO OBTAIN WARRANTY SERVICE IN THE U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS... Contact Magnavox Customer Care Center at: 1-800-705-2000

TO OBTAIN WARRANTY SERVICE IN CANADA... I-800-661-6162 (French Speaking)

I-800-705-2000 (English or Spanish Speaking)

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CON-SUMER. MAGNAVOX SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MER-CHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusions or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract agreement with the MAGNAVOX partnership within ninety (90) days of the date of sale, the limitation on how long an implied warranty lasts does not apply.

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Magnavox, P.O. Box 671539, Marietta, GA. 30006-0026

(Warranty: 4835 710 28125)

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